Mining Journal,

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

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No. 2469.—Vol. LII.

LONDON, SATURDAY, DECEMBER 16, 1882.

SIX PENCE.

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OPTIONS, SINGLE or DOUBLE, dealt in at close market JAMES H. CROFTS, 1, FINCH LANE, LONDON.

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Bouth-East
Devala Moyar.
Devala Oentral.

Indian Trevelyan.

Tambrache Rhodes Reef.
Bouth-East Wynard.
Tambracherry.
Wynard Perseverance.

Devala Moyar,
Devala Central.
Indian Consolidated.
Indian Genrock.

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52 New Quebrada, £4 126
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such E15 this year.

IMPORTANT TO SHAREHOLDERS IN TREVAUNANCE UNITED.

Official Report from Manager of West Kitty, page 1519.

NEW KITTY AND WHEAL COATES.

All shareholders in these important mines should attend the Meetings next

Mr. REYNOLDS refers his readers to his remarks on page 1524.

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We recommended these Shares in our August Circular at 10s. 6d. They are now 35s. to 40s. each, and are likely to go to £5.

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Are certain to equal East Wheal Rose in prize shortly. They should be bought at once.

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TRESAVEAN.
OLD SHEPHERDS.
WHEAL CASTLE.
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EAST WHEAL ROSE, OLD SHEPHERDS, TRESAVEAN

The shares in these mines have been granted an "official settlement" by the committee of the London Stock Exchange.

They are freely dealt in by all brokers on the Stock Exchange.

They are steadily advancing, and are likely to reach & each on the intrinsis merits of the mines.

Shareholders who have just returned from a careful inspection have considerably increased their holdings.

The general meetings of shareholders will be held in about a fortnight, when it is anticipated the balance-sheets will be so satisfactory as to astonish many.

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Applications for shares may be made to Messrs. BAIN, FIELD, HITCHINS, and CO., Bankers, Redruth, or to the Secretary at the Company's Offices, 11, Clement's Lane, Lombard Street, London, E.C., from whom Prospectuses, Reports, &c., with all information may be obtained.

Meetings of Bublic Companies.

DON PEDRO MINING COMPANY.

A special general meeting of shareholders was held at the Cannon-street Hotel, on Thursday,—Mr. RYAN in the chair. Mr DAWSON (the managing director) having read the notice calling the meeting.

The CHAIRMAN expressed his regret that neither of his colleagues, Gen. Downing nor Col. Weller, were able to be present owing to ill-health. The managing director would read letters he had received

from them.

The letters were then read as follows:—

The Grange, Plaxtol, Dec. 13.

Dear Dawson,—It is with much regret I am obliged to ask of you to make my apologies to the meeting to-morrow for not being present. I have been laid up with a severe cold, and my medical adviser will not hear of my going out. It appears to me that there is, I may say, but little in Capt. Kitto's report that we did not know long ago. When Captain Trelar retired from the management of the mines he left his own son-in-law, Mr. Symons, to carry out his views of drainage, and the great wheel was inaugurated by them. As matters did not progress satisfactorily, manager after manager was changed. Every effort, as you know, was made by the directors to get "the right man in the right place," but in vain. You personally visited the mine and brought away valuable information to the board. Still it was impossible to recover the state of things unto which everything at the mines had fallen—sinking had been neglected for the sake of large dividends, adits undriven for want of funds, the great wheel falled to drain the increase of water, and finally broke down. This is a summary of the failures during our exertions to recover the paying position of the Don Pedio Gold Company, and I trust may be of service to those who may be now required to resuscitate the progress of the company. I would regret much more my inability to attend the meeting did I not feel confident that you are equal to the occasion in giving any information that may be required by the shareholders in assisting to guide them in the decision they may arrive at. Kindly read this to the meeting.

Kingsgate House, Roivended, Dec. 12.

my inability to attend the metting did I not feel confident that you are equal to the occasion in giving any information that may be required by the share holders in assisting to guide them in the decision they may arrive at. Kindly read this to the meeting.

D. DOWNING.

DEAR DAWSON,—I fully intended to be present at our board meeting on Thursday at 12 o'clock, and especially at the extraordinary general meeting, which is to follow at two; but I have been so poorly since I saw you that I do not feel equal to the effort. It is, however, a great satisfaction to me to observe from the report sent in by the investigation committee, that their views as to the general value of the Don Pedro Mine, as well as to desirability of reconstruction and working, are in accord with the present board, and I feel hopful there will be no serious opposition shown at the general meeting on Thursday, in carrying out the views of the committee. Assuming, therefore, that reconstruction will be carried, I am disposed to accept the proposition offered of shares in the new company on those I hold at present (original, new, and debentures) and to take an equal number of the new stock. Of course, I do not bind myself to this until I am fully informed of the course and result of Thursday's proceedings, and I would feel greatly obliged if you will state to me shortly on your return to the office, or on the following day how matters have come off.

The CHAIRMAN: These letters sufficiently explain the reason why 1 unfortunately am in the chair to-day. I little thought when I joined the board of this company and it would serve no good purpose if I were to go into its financial condition, or any of the probabilities that way know the mounts to 5500l, with interest thereon, we have no liabilities that we know of at the mine up to the present date. Mr. Heilbuth has borrowed from him that sum on interest, which is due to not pay off the whole; otherwise the property is so far safe for the present. As regards this country, we are under no liabiliti we shall be all justified in trying reconstruction with a proper amount or capital. The capital the directors had in mind was not so large as that proposed by the Committee of Investigation. If the scheme the committee had proposed should meet the sanction of the shareholders, it is not for the directors to propose counter scheme. We thought it our duty to put their report before you as quickly as possible, and it is probable that one of their number will address you in further elucidation of their proceedings at this meeting. We fully largree as to the need of reconstruction, but the committee seem to recommend that the shareholders should receive an allotment in the new company in the ratio of one new share for four without any further liability attaching to them. It struck me, and also Mr. Dawson, at once that that was not the best way to induce the shareholders to find fresh capital. I am arraid many might be tempted to say "I have lost enough, and I am not disposed to go into a new company. I abail take my proportion of old shares and remain passive." We thought that the new interest should be conditional on their paying a certain subscription.

A SHARRIGILDER: When was the 500%, advanced to the company.—The CRAISMAN: About a year ago, and under the circumstances fully detailed at the last meeting. We have every reason to think that Capt. Bawdon, who was the original and sole vendor to the company, and who lives out there, is friendly to the company.

the company.

Mr. Hersey Tolfvitt: My colleagues on the committee of investigation have saled me to respond to the wish of the Chairman, and on their behalf address a few words to the present meeting. I was put upon this committee at the last meeting without my knowledge and without my encountry to the words to the present meeting. I was put upon this committee at the last meeting without my knowledge and without my encountry to the committee at the last meeting without my knowledge and Mr. Dawson, as the Chairman has stated, afforded them all the facilities he could in our enquiry. He gave me a very complete set of reports from the commencement of the company, which we have gone carefully through and submitted to Mr. Kitto. Mr. Kitto, at my suggestion, was invited by Mr. Dawson to attend this meeting. This morning, however, I received the following note from him:—

"Dear Sir,—I received a note from Mr. Dawson kindly inviting me to attend the meeting; but as your honourable committee informed me that it was not necessary for me to attend (my colleagues will bear me out instating that it was his wish that he should attend, for we expected him to do so), I cannot afford to

attend any meeting out of mere curiosity. If you wish the Don Pedro to be made an unqualified success I can do it, although my position will not allow me to take the local management. (Longlitz) was a communication Mr. Attey made to the delitor of a mining paper, and in the result he invited Mr. Kitto for sacet us. We were all struck with Mr. Kitto local knowledge of the Brazil, and his views appeared to be in the main sound. I referred those views to another ag', he can whe plains and the inclined planes, said—"Heaven bless my soul, the way the plain and the inclined planes, said—"Heaven bless my soul, the way the plain and the inclined planes, said—"Heaven bless my soul, the ought to be the other way up." (Laughter.) So far as our knowledge goes we are disposed to believe his views to be correct as to the way the mine ought, and my recollection of themare that they are unanimous in expressing their belief that the mine is still very rich. It would be a rich as formerly, but the gold has not been taken out properly. It is perfectly absurd to suppose you can draw of the other," at this point it does not go any further." With regard to reconstruction, and the remark of the Chairman, that was a point which occurred to us, and which we discussed very fully. Mr. Bill, one of the committee, and a struck of the committee of the committee, and a struck of the committee, and a struck of the committee of the committee, and a struck of the committee of the committee, and a struck of the committee of the commi

The CHAIRMAN said that there was still one subject in this connection unsettled, and that was the question of the remuneration to be given to the liquidators. That could either be determined on at the present or at some future meeting.

Mr. WILDE suggested that the question should be left over till a subsequent meeting.—The Solicitor thought that would be the better course, as the work would be practically done, and it would therefore be easier, having regard to what that work had been to come to a satisfactory conclusion as to what would be a suitable remuneration.

The CHAIRMAN moved that the remuneration be fixed by the shareholders at the next general meeting.—Mr. WAGSTAFF seconded the motion.

4 Mr. PRASEE RAE proposed "that 100 guineas be divided amongst the liquidators as they see fit."—Mr. RANSFORD seconded the motion.

A SHAREMOLDER HOUGHT this amount was entirely out of the question. They could not expect three gentlemen to give the time and labour which would be could not expect three gentlemen to give the time and labour which would be could not think they would get three liquidators to act in a matter of this kind for 100 guineas, and, he, therefore, thought it would be better to leave the question open till another meeting, when they would be better to leave the question open till another meeting, when they would be better able to deal with it. Another SHAREHOLDER agreed with the last speaker in all he said.

The SOLICITOR said that as far as his experience went in the case of a company in the position of the future time than to vote an absolute sum of money at once Mr. PRASEE RAE wished to add that the shareholders of this company were not ungenerous, and if the liquidators' duties proved to be onerous he did not think anyone would object to vote an extra amount.

A short discussion ensued, at the end of which the CHAIRMAN put it to the meeting to say whether the amount of the remuneration should be fixed at once decided by making the remuneration 150 guineas, to be divided amongst them favour of

the shareholders would be for the winding-up under supervision as distinguished from the voluntary winding-up.

The CHAIRMAN pointed out that in other words it meant that this meeting thought it was desirable that the supervision should be under the Court supposing circumstances rendered it necessary.—The motion was then agreed to.

A long discussion followed as to the details of the reconstruction scheme. Finally Mr. WILDs proposed, "That the holders of shares, No. 1 to 100,600, receive 25 per cent. of the nominal value of their holding in shares of the new company, or in lieu thereof any shareholder may take a number of shares equal to his holding with the sum of 10s, per share credited as paid thereon, leaving him a liability of 10s. a share." The motion was carried, and a vote of thanks having been passed to the Chairman the proceedings terminated.

VICTORIA DIAMOND MINING COMPANY OF DE BEER.

The ordinary general meeting of shareholders was held at the offices, Finsbury Circus, on Wednesday,

Mr. C. J. Posno in the chair.

Mr. CHARLES DAVIS (the secretary) read the notice calling the meeting. The report of the directors was taken as read.

The CHAIRMAN said that, in submitting the report for their adoption, he considered that it stated as much as the shareholders could desire to know, but at the save time any constitutes that they reight

The CHAIRMAN said that, in submitting the report for their adoption, he considered that it stated as much as the shareholders could desire to know, but at the same time any questions that they might desire to ask him he would be happy to answer. The expenditure, it would be noticed, had considerably exceeded the amount of share capital subscribed, but he believed that the report showed pretty fully all that had been done for that amount. They had obtained good results; for, though they had laid out a great deal of money, they had obtained the knowledge that they possessed a very valuable property. Their manager, Mr. Henrichsen, and Mr. Oates, their engineer, had displayed great energy; but the result obtained was also in a great measure due to the friendly support that had been extended to them by influential shareholders, who had provided them with the means of carrying on the work, without which they would not have been in the position of going down deeper on the property, and thus discovering the rich ground. These shareholders were still desirous of extending further support to the company, provided the other shareholders came forward with their help. The sum already advanced by the gentlemen to whom he had referred was \$9,0004., and they were now willing to take debenture for a term of five years if the shareholders. It meant, in fact, the increase of their risk in the company by one-sixth part more than they had at present in vested. In effect it means this: the matter was now very much in the hands of the shareholders, the necessity having arisen for his appealing to them to come forward and find the capital required for further and fully developing the company's property, which had been proved to be of great value. Reasonable time would be given to the shareholders who were willing to take up their proportion of the debentures. The 50,0004 already subscribed for would mank as a first mortgage debenture, and the second issue of 50,0004. as a second mortgage deded. The first 50,0004 debentures would be ar

of her three on certain terms, and that brought them very much to the same position.

The CHAIRMAN said the committee were of opinion that nothing short of a new company would do anything effectual to bring matters to a satisfactory issue.—Mr. Dawson: Just so; because the Articles of Association are such that you cannot issue capital but on, certain conditions.

The CHAIRMAN then moved: That the company be wound up secondingly."

—Mr. Hill.esconded the motion, which was carried unanimously.

The CHAIRMAN moved: That Mr. Albert James Atkey and Mr. John Edward Dawson he appointed liquidators of the company: Dawson he appointed liquidators of the company: Dawson he appointed liquidators of the company in the country of the diamond mining portant, they ought to appoint the reliquidators. (Hear, hear.) The liquidators was agreed to appoint the law years on the case they were not going to wind up—they sees only in the country of the company of a new and, it might be, on an improved footing. He did not think, therefore, they ought to ask two gentleman to take the proposed that the same of Mr. Boydell's made do continue the company on a new and, it might be, on an improved footing. He did not think, therefore, they ought to ask two gentleman to take the proposed that the same most of the responsibility without someone being added to their number to lighten their labours; and for that reason, and being well acquainted with him, be begged to propose that the anems of Mr. Boydell's name being added, but he thought that the spenses that must grow out of such an arrangement would become a straight of the company they had to work a large would be of any special assistance to the shareholders moved to the country of the company at a depth of the proposed that the same time of the liquidators were unnecessary he should be very gleased to have his name withdrawn in favour of that of the large straight of the company at a depth of the pround before, but in their calculations they could be only as his dudy, but a pleasure to serv

they had factory t could be Mr. Greef.
that there Mr. Greef the world

the world Lang: Y Mr. Gs; into one on the G Mr. Gs; generall; Mr. Gs; candid o rence to ticular a thought the share mantly a 2z uno di this com they had satisfied The Cs Municipal Communication of the communication of t

He had every confidence in the future success of the company, and believed that in a few months they would not only pay their way, but be working at a

in the motion for the re-election of the directors, who all retired on this asion, Mr. MACDONALD declined to act, stating that his time was too much upied, and that they had a strong board without him, but some doubt being as to the filling up of the vacancy on this occasion at this meeting, Mr. Machald consented to retain office until another gentleman was appointed to the tion; the whole of the directors were consequently re-elected. Mr. W. L. ton Brown, the retiring auditor, was re-elected at the same remuneration effort.

efore. yote of thanks to the Chairman and directors closed the meeting.

THE AKANKOO (GOLD COAST) MINING COMPANY.

The third ordinary general meeting of shareholders was held at the Cannon-street Hotel, on Thursday, Mr. GEORGE CAVENDISH TAYLOR in the chair.

Mr. George Cavendish Taylor in the chair.

The report of the directors having been taken as read,

The Chairman said that several shareholders had asked why
they went to the expense of sending Mr. Lane out and bringing
him back, and why he did not remain there. Well, the directors
considered it highly desirable that Mr. Lane should go out, should
see the locality, should see the requirements of the locality, and
make himself thereby acquainted with them; that he should then
come home and report to the directors in person what possibly could
not be done by correspondence, and that also he should be present here in the sign back, and why be did not remain there. Well, the directors considered it highly desirable that Mr. Lane should go out, should see the locality, should see the locality, should see the locality, and make himself thereby acquainted with them; that he should then come home and report to the directors in person what possibly could be done by correspondence, and that also he should be present here in the sist bot the focus of the control of the control

this company from beginning to end had been managed in a most economical manner. There were one or two difficulties at starting, but these had been disposed of. Another thing they had to do was to house the miners, and to house them comfortably.

Mr. Lane said that the specimens of ore he brought home he took at random; those had not been assayed, but the washing took place in the presence of the district Commissioner, who saw it the same as he did. It did not strike him at the time there would be any necessity to bring home any rock to assay after the many assays that had been made.

Y The CHAIRMAN, continuing, said that Capt. Cameron's accounts only came two or three days before the last meeting, and it was impossible to deal with them there. Since then they had been thoroughly gone through by the secretary, and had been audited as far as possible. Of course, it was very difficult, as they had a lot of pay-sheets and black men to get vouchers that would be satisfactory to a London accountant; but he believed they had got the very best that could be obtained on the spot under the circumstances.

Mr. GEPHING asked Mr. Lane if the largest of the three reefs was a well-defined reef.—Mr. Lank: Well, it is fairly defined, but I cannot say much more than that there is a considerable outcrop.

Mr. GEPHING: You said you considered this to be one of the finest mines in the world, that is your candid opinion from the indications you saw.—Mr. Lank: Yes.

Mr. GEPHING: If efficiently worked and economically managed it will develope into one of the leading if not one of the most prosperous gold mining properties can the Gold Coast. Is that your opinion F-m/r. Lanks: It is.

Mr. GEPHING the sound in the saw of the most prosperous gold mining properties can the Gold Coast. Is that your opinion F-m/r. Lanks: It is.

Mr. GEPHING the same in the market, and the was likely to be. With reference to calling up the money, they had entered into a contract with each particular shareholders. In the case of Indian mines notices and repo

a share, and when a man could get a fully-paid up share for 13s. it was hardly likely he would pay 12s. 6d. with calls to be made.

Mr. Laxe was sure they would be very pleased at the way in which the directors had been able to congratulate them on the present state of things. He explained that soon a tramway would be constructed, when there would be no difficulty in getting materials to and from the mines. There was an abundance of water and an ample supply of timber. The climate was by no means as bad as it had been painted, but of course it was necessary to feed and house their men well.

neir men well.

The report was then adopted, and the retiring directors and auditors having een re-elected, a vote of thanks to the Chairman and directors and manager erminated the proceedings.

BRATSBERG COPPER COMPANY.

The ordinary general meeting of shareholders was held at the offices, Austin Friars, on Thursday,
Mr. J. H. Murchison, F.R.G.S. (the Chairman of the company)

presiding.

Mr. H. C. Murchison (the secretary) read the notice convening the meeting. The reports of the directors and managers, and the statement of accounts, having previously been circulated amongst the shareholders, were taken as read.

mr. H. C. Murchison (the secretary) read the notice convening the meeting. The reports of the directors and managers, and the statement of accounts, having previously been circulated amongst the shareholders, were taken as read.

The CHAIRMAN said: Gentlemen, the directors regret very much to have omitted in their report any notice of the deaths of two of their largest shareholders. He took great interest in the proceedings of the company, and also had great confidence in its success. He knew a good deal about these things, and was a man of very acute perception in regard to them. The other, Mr. Briggs, was a well-known public man, at the head of one of the largest colliery and iron-works in Yorkshire, and he was a man who, from his knowledge of machinery and mechanical appliances generally for mining purposes, was, of course, of very great service to this company. He went out to see these mines, and also to perform some very important matters of business connected with this company, and I am sorry to tell you that he died satemy in Norway, really whiche was engaged in the service of this company to be a some of the service of this company in the service of this company in the company which was a man of the proper time comes, cordially apport the election of these two gentlems. The accounts a cordially apport the election of these two gentlems. The accounts as often in companies of this description, particularly foreign companies, where you can, have a meeting, and have accounts presented brought up to within six weeks of that meeting. (Hear, hear.) With regard to the extensive the profit and loss accounts in the profit and loss accounts is given without any estimates whatever. We have charged a portion of the preliminary expenses to the profit and loss accounts, and it is intended to do so in Intury versary expenses to the profit and loss accounts, and it is intended to do so in Intury versary expenses to the profit and loss accounts, and it is intended to do so in the country of the profit is a work. The prof

a distance of about four months and a half in the year and a local pute irrespective of the weather. It was I think laid up from the middle of Quite irrespective of the weather. It was I think laid up from the middle of December till April.

Captain Daw: Till the end of April. It could have run, so far as the weather was concerned, nearly all last winter.

The Oharraman: If we have a steamer of our own we should be quite independent of these steamers, and be able for an it at the times and get home the ores when we cannot now get them conveyed. The steamer would pay very well from the traffic we should get from other sources. The estimate for the steamer is something under 2000t, so that we are in hopes that we have got the means to carryout both these objects—that is still development of the Nasmark Mine, and the purchase of this steamer. The directors' and managers' reports are so full of detail that I have nothing new to tell you; but any questions which any of the shareholders wish to ask will be answered. I now beg to move "That the reports and the accounts now presented be received and adopted." (Cheers.)—Mr. H. W. LAMB seconded the motion.

Mr. LEAK: There is an item for the purchase of land, turbine sites and water-course. I thought the whole of the mines and the land adjoining belonged to the company. It is a small item of 20t. 5s. 7d.—Capt. Daw: It is a small piece of land bought at the boundary of the company's property for the water-course.

A SHAREHOLDER asked for an explanation of the item "less deducted for working account."—The CHAIRMAN said that when the iron, coal, oil, and other things which the company had paid for were given out to the men they were charged with them, and the amount was deducted from their wages.

Mr. SLOUR congratulated the directors and the shareholders on the success which the company had achieved up to the present time. (Cheers.) He was a very old mining shareholder, and he would warn the directors to avoid the very old mining shareholder, and he would warn the directors to avoid the rocks ahead in connection with the development of the mines. It too frequently happened that hard earned profits were spent in endeavouring to become prospective advantages. He thought that a certain amount/should be taken from the profits of each year for development work, and that there should not be a constant drain caused by prosecuting uncertainties.

In reply to Mr. BERGTHEIL the CHAIRMAN said they had two freehold properties of about 1000 acres each, and a forest which was a leasehold.

Mr. BERGTHEIL: What is the lease?—Capt. Daw: 25 years, of which about five are expired.

Mr. Bergithell: What is the lease F—Capt. Daw: 25 years, of which about live are expired.

Mr. Bergithell: Is it intended to declare a dividend to-day?—The Chairman.

Mr. Bergithell: A 5 per cent. dividend would absorb 3000.

The Chairman: The dividend would be paid only on about 56,000. It would take 2600., and we should carry over about 1000. of profit afterwards. Besides this we have about 12,000. of working capital.

Mr. Bergithell: A bound the paid only on about 56,000. It would take 2600., and we should carry over about 1000. of profit afterwards. Besides this we have about 12,000. of working capital.

Mr. Bergithell: Hought that with the work they had ahead the money would be better in the hands of the directors to expend on the development of the mines. He for one would be quite willing to wait a little while longer for a dividend. Mr. Bergithell asked how it was that so many of the shares were not paid up in full?

The CHAIEMAN: Some of the shares were not issued till the end of October. The amount is not due yet, as the instalments are payable up till February next., Mr. Maddox. There is an item upon the credit side of the accounts of calis of 25004. Are those unpaid calls?

The CHAIEMAN: They are calls chiefly not yet due or in course of payment on the newly-issued shares. The directors do not propose to pay the dividend until nearly 3000. has been received for the ores. The profit will be 35941, and a dividend would come to about 1000. Less than that. You see we have paid the cost of raising this ore, and the whole of the money will come back to us.

Mr. Maddox supported the proposition of the directors that a dividend should be paid as soon as it could be paid for rule tyle, considering that the fact of a company being in the Dividend List infinitely improved its position. (Hear, hear.) They had at least 100,000. worth of ore in reserve; they had purchased all the necessary machinery, and they were actually making profits. The directors would, therefore, be fully justified in declaring a dividend.

the directors on the satisfactory aspect of the mine, and on the great energy which had been displayed in the development of the property. (Cheers.)

Capt. DAW, in reply to questions, said: I think all the expenses of the steamer would be met by the traffic of the place, irrespective of the carriage of the company's ores, and further that the steamer would be able to ply on the lake at least eight months of the year in all years. I have no doubt that we shall continue to make good returns. I never saw the mines looking better than when I left a fortnight since, and I have been connected with them for ten years. There has been a considerable improvement in the main points. We have alout 300 fms. opened on the course of the lode, all in profitable ground, and when the new machinery is erected we shall be able to increase the returns considerably. I think we shall do a good deal irrespective of the new machinery in the coming year.

ing year.

Mr. MADDOX: What do you consider would be profitable per fathom?

Capt. Daw: On the average, taking two-thirds of the whole extent of ground, it is worth about 13'. per fathom, taking 1 ton to the fathom. I the a third of that would be profit, taking it generally throughout the mine.

A SHAREHOLDER: What would be the expense?—Capt. Daw: About 8'. ton—that is, including freight, and actually delivered at the smelting works Swanesa.

Swansea.

The reports and accounts were then unanimously adopted.

On the motion of Mr. J. Macnillan, seconded by Mr. Laskar, the auditor,
Mr. L. M. Bergthell was re-appointed at a remuneration of 10 guineas per

Mr. L. M. Bergtheil was re-appointed at a remuneration of 10 guineas per annum.

A cordial vote of thanks having been passed to the Chairman and directors. The Ollarman acknowledged the compliment, and said: We attend to the business very carefully and attentively. It occupies a great deal of time and thought; but I think that in future years the attention and labour we have given in the past will be still more, and very much more rewarded by the increased prosperity of the company. (Hear, hear.) I am quite sure of this, that we have a very valuable property, and that it is being most carefully and ably worked by the managers of the mines. (Hear, hear.) We have the advantage of having men there who have not to gain their experience, but who have been long resident in Norway. Capt. Daw, sen., has been there 15 years, and his sons have been with him for some years; so that is not like sending strangers who have to learn their lesson before they can work the property. They have learned all that, and we are already reaping the advantage of their experience, and I think that in future we shail have very great cause to be satisfied with the undertaking we are associated with. (Cheers.)

ARIZONA COPPER COMPANY.

The first general meeting of shareholders was held at the Free-masons' Hall, Edinburgh, on Dec. 8,—Sheriff GUTHRIE SMITH pre-

siding. There was a large attendance.

The CHAIRMAN stated that, in terms of the Act of Parliament, they were met within four weeks after the registration of the company, to appoint directors to carry on the business of the undertaking. The directors who started the company had printed the following report of the proceedings down to the present date:—"On Sept. 7 possession of the works was obtained. At that date the large 40-ton smelter was under repair, and only a small one of half this tapacity in use. By the beginning of October the large smelter was at work, and the production of copper is now about 325 tons weekly. Another smelter or 39 tons capacity is being put up at an expense of \$300, and should be ready for work by the close of the production of th siding. There was a large attendance.

The CHAIRMAN stated that, in terms of the Act of Parliament, they were met within four weeks after the registration of the com-

A., as auditors.
This motion having also been adopted the meeting separated.

POLCREBO TIN MINING COMPANY.

The ordinary general meeting of shareholders was held at the

offices, Great Winchester-street, on Wednesday,
Mr. Molesworth St. Aubyn, M.P., in the chair.
Mr. W. Battye (the secretary) read the notice convening the meeting, and the minutes of the preceding meeting, which were confirmed.

The accounts for the four months from Sept. 23 to Dec. 13 showed that the mine started with a balance in hand of 231. 12s. 9d., and that the call of 7s. 6d. at the last meeting realised 618l., the total receipts having been 660l. 7s. 9d. The cost sheets were 310l. 14s. 5d., and the payment to Messrs. Harvey, on account of the new engine, was 150l. The cost of procuring the leases was 52l. 10s., and the balance in hand was 14d. 14s. 4d. The calls unpaid were 42l., and the total liabilities 544l. 17s. The assets, however, reduced these liabilities to 487l. 12s. 9d., which was the actual sum against the mine.

Mr. Edwards presumed that the mine, with this sum of 487l. paid, would be free from debt, and that the engine was worth 550l. 7—Mr. Hattyrkreplied that that was right, save that 200l. was still owing upon the engine, which could be paid by instalments during the next year.

The Chairman said he thought the accounts very satisfactory indeed, and he proposed their reception and adoption.—Mr. W. Byrnapp seconded the motion, which was carried nead dass.

The following report from Capt. Martin was then read:—Captain W. H. Martin reported that the work generally has been of a pre-The accounts for the four months from Sept. 23 to Dec. 13 showed

proposed their reception and acopason.—At the read:—
which was carried near dast.
The following report from Capt. Martin was then read:—
Captain W. H. Martin reported that the work generally has been of a preliminary character, placing the pitwork, shafts, and levels in proper working
order for the future development of the mine. The driving of the 30 level east
from engine-shaft is a point of great interest, seeing the lode has improved at
the deepest place, and by extending under the tin ground already shown there
is every prospect of opening up a rich lode. The driving of a cross-cut south at
the 17, on the cross-course, is a very important point. This in itself will open
up a new mine. They have three lodes to intersect within 30 fms. which have
been extensively worked on in the backs. He has carefully dialled and measured,
and finds Great Wheal Worthy lode is only 30 fms. south from their present
operations.

and finds Great Wheal Worthy lode is only 30 Ims. south from their present operations.

The Chairman: How are you getting the water out of Highburrow lode?

Capt. MARTIN: By a horse-whim: but presently the engine will carry it away. They were going to clear the Highburrow shaft to the 17, and then put in a small leat, which would keep the water down.

The Chairman: As I understand, you found the engine-shaft deeper than you expected?——Capt. MARTIN: Yes. It is 14 fms. 3 ft. deep. As soon as the 17 in Highburrow shaft is cleared to the 17 fm. level we shall drive east and west from that shaft on the course of the lode in old ground. It is also our intention to drive a cross-cut south to cut the Great Wheal Worthy lodes, which form a junction with our main lode in the centre of our sets. In my report you will observe we find the lode producing 20 its. of tin to the ton.

The Chairman: In your judgment, as a practical miner you think the prospects satisfactory.—Capt. MARTIN: Yes. I do not know a young mine possessing better prospects.

spects satisfactory.—Capt. MARTIN: Yes. I do not know a young mine pos-sessing better prospects.

The CHAIRMAN: As to the expense—have you given ample scope for the next four months in your calculations?—Capt. MARTIN: I have made every

allowance.

The CHARMAN: This mine is, of course, a speculation, but from what I know of the country I think it is a very good one. I propose the adoption and circu-

of the country I think it is a very good one. I propose the adoption and clation of the report.

Mr. J. Straff seconded the motion, which was agreed to.

A letter was here read from Capt. Chappell, suggesting that the remains the shares should not be offered to the public, but appropriated amongst harcholders willing to take them. Mr. Mitchell, the purser, had, how

at a premium.

The CHALEMAN: It is a pity that the public, who have been simply waiting to see what we have been doing, should come in now and get shares at par. I think, however, that this is a matter of detail for the committee.

After a considerable amount of discussion the consideration of the matter was

adjourned.

Lapt. MARTIN, in reply to questions, said the operations had been purely preliminary. He did not think they could bring tin to market for four months yet.

The tin at present on the surface was worth about 20%. The lowest produce was,

liminary. He did not think they could bring tin to market for four months yet. The tin at present on the surface was worth about 291. The lowest produce was, however, 40 lbs. to the ton.

The SECRETARY said he thought a call of 10s, would be enough. If they made a 10s, call they would place themselves in a first-rate financial position. It would bring in nearly 10001, which would pay off every liability, and provide ample funds for the next four months.

Some of the shareholders expressed an opinion that the 10s, call might be avoided if the unissued shares were taken up and paid for.

The CHAIRMAN, who dissented from this proposal, ultimately moved—"That a call of 10s, a share be made, payable on the 22nd inst."

Mr. Edwards seconded the motion, which was carried.

The meeting terminated after passing a vote of thanks to the Chairman.

RAVENSCLIFF MINING COMPANY.

The ordinary general meeting of shareholders was held at the Guildhall Tavern, Gresham-street, yesterday,

Mr. FREDERICK PETERSON WARD in the chair.

The ordinary general meeting of shareholders was held at the Guildhall Tavern, Gresham-street, yesterday,

Mr. FREDERICK PETERSON WARD in the chair.

Mr. CHARLES GRAINGER (secretary) read the notice convening the meeting. The report and accounts were taken as read.

The CHARLEMA said the report contained so full and exhaustive a statement of the affairs of the company, as to leave little or nothing to be added by way of comment or explanation. All that careful forethought, and the best skill at their command, and the means would permit had been done to develope the Ravenscliff property, and, as would be seen with regret, their efforts had not been successful; not that there had been no gold found, for, as would be seen, it had been found in variour parts of the mine; but the expense of getting it was so great, owing to the high rate of wages in that out of the way part of the colony, and the hard nature of the rock, that the operations would not pay. Those familiar with the affairs of the company from the beginning would remember that in the original prospectus it was stated that the earlier proprietors of the mine had in the lower levels developed portions of the lode, which contained a considerable amount of gold—2½ to 2½ ozs. to the ton—and it was hoped that at lower depths the deposit would not only continue, but extend in depth. This, however, much to their disappointment, did no turn out as they had hoped. Mr. Longbottom, the board, after careful examination and selection, advised that a tunnel should be put in at atout 250 ft. from the level of the sea, hoping that more favourable ground might be struck there; but that operation also had not been sufficiently successful to justify the spending more of their limited capital in pursuing operations there. It must be borne in mind that persons with more means, and sufficient skill and courage who might see the property was now open for asle to any persons who might their kind. The property was now open for asle to any persons who might purchase the property

one-third to one-fifth of the profits. The Chairman then moved the adoption of the report and accounts.

Mr. Richard Byam Ottley seconded the motion, which was carried unanimously and without any discussion.

On the motion of the Chairman, seconded by Mr. Ottley, Mr. George Clerihiew was re-elected a director, and on the motion of Mr. Ottley seconded by Mr. Clerihiew Mr. Ward, the Chairman, was also re-elected. Mr. George Thomas Rait was re-appointed auditor.

The Chairman said the report stated that "the directors continue to give their best attention to the company's affairs, and both they and the auditor, as heretotore, allow their claim for remuneration to remain in abeyance." The directors and auditor, of course, did not forfeit their claim at all. It remained in full force; but for the moment they did not propose to claim them. If their future operations were successful their claim for remuneration would, of course, be as good as before. The expenses of the company were as small as they could possibly be made. They were charged scarcely any rent, and the secretary, accountant, and the other officers rendered cheerful service at a small rate of remuneration.—The meeting then closed with the usual compliment.

SOUTH-EAST WYNAAD ESTATES AND GOLD MINING COMPANY

The report of the directors prepared for presentation at the meeting on Tuesday next submits accounts showing a cash balance of 496l. 16s. 6d., and a balance of assets over liabilities of 5180l. The satisfactory progress in the development of the Elizabeth Mine has continued since the middle of June, but there have been serious causes of delay—a monsoon of unprecedented severity and duration; the non-delivery by the Bombay engineers of the small pyrites mill till a late date being many months overdue; and the delay in obtaining from Madras, and the worthless character when obtained of the steel shoes for the 12-stamp battery, which battery has been stopped for days and even weeks from this cause. In spite of all these and other hindrances it appears that with nine heads at first and afterwards 12 heads of stamps there were crushed in the months to November 580 tons of stone, which yielded 78 css. 1 dwt. 6 grs., or at the rate of 2 dwts. 17 grs. of gold to the ton. The pyrites and tailings from these 580 tons are estimated to contain 275 ors. 16 dwts. 6 grs. of gold or an average of 9 dwts. 12 grs. to the ton, making a total average of 12 dwts. 5 grs. of gold to the ton of stone. Three remittancess of gold have been received to date, amounting to 46 coss., and have realised 151l. 19s. 3d., averaging 3l. 5s. 9d. per ounce. The average parting of the gold and sliver was gold, 771: sliver, 213. Mr. Cooper, the general manager, after reporting upon the various description. ing on Tuesday next submits accounts showing a cash balance of the two of stone. Three remittances of gold have been received to date, amounting to 46 css., and have realised 1512. 18. 34., averaging 36. 58. 94. per ounce, The average parting of the gold and silver was gold, 771: silver, 213. Mr. Cooper, the general manager, after reporting upon the various points of operation at the mines, asys:—Alogether a large amount of underground work has been done during the past six months, and I consider the development very attifactory. Crushing and reduction works; with the exception of a few stoppages for repairs and alterations crushing has been going on regularly at the Elizabeth mill night and day aince the middle of June. The results of the different crushings I duly sent to you, the amount of free gold we have obtained has averaged about 3 dwts. per ton; the prites has not yet been treated, but according to assays made, it will average about 3½ czs. per ton. We are now crushing No. 5 Elizabeth and shall continue to do so, as from this and No. 6 we obtain the larger amount of pyrites. Owing to the makers not delivering the pyrites mill to the time specified, the traiting of these ores have been delayed. It is, however, no v erected as also the two amalgamators, and we shall start to the norrow. As we cannot find any trace of arsenic in the pyrites I do not think we shall find any difficulty in treating it.

In conclusion, all I have to say is that both at the mines and reduction works we are in good working in the Elizabeth Mines, and the 20 head battery at work as well as the 12 head, in all a capacity of crushing 60 tone a day.

Under the head of cultivation the directors regret to report that in common with nearly the whole district the season 1851-82, resulted in a considerable loss on the coffee crop (as shown in the balance-sheet), and they fear they have no cleance of avoiding a further though not so great a loss in the present season. Their instructions are not to spend 1s more than is actually necessary to keep the coffee alive, and to prevent weeds interfering wit

WEST WHEAL ROSE

(LIMITED).

SEVEN LODES

ALREADY DISCOVERED.

ROYAL SCHOOL OF MINES

The tenth annual dinner of the professors, students, and others interested in this School was held on Monday evening last at the Criterion Restaurant, Piccadilly. The chair was occupied by Mr. E. L. J. RIDSDALE (late of the Royal Mint), and the company, which numbered about 120, included Prof. Huxley, Dr. Geikie, Prof. Stokes, Prof. C. Roberts, Prof. Judd, Gen. Martin, Sir Chas. Crawford, Mr. Blanford, Mr. Matthey, Prof. Huntington, Prof. Martin, Col. Fielding, Prof. Guthrie, Major Boileau, Mr. Rutley, Mr. Danby, &c.

At the conclusion of the dinner the customary loyal and patriotic toasts were proposed and responded to.

asts were proposed and responded to.

The health of Her Majesty the Queen having been drunk with

enthusiasm.

The CHARMAN next proposed the health of the Prince and Princess of Wales, and the other members of the Royal Family, and in doing so observed the Prince of Wales, as the Duke of Cornwall, might be said to be at the head of the great mining interests of this country. (Cheers.) It was a noteworthy fact that the liberality by which the leases of the Duchy of Cornwall were characterised was such as to render them always an object of attraction to the control of the same and the control of the control o

BOUNDED ON FOUR SIDES BY THE

SHEPHERDS MINES.

"Equal in value to its neighbour."

CHARLES KNEEBONE.

"CHARLES KNEEBONE.

"A safe and sound investment."

RICHARD SOUTHEY.

RICHARD SOUTHEY.

"A safe and sound investment."

RICHARD SOUTHEY.

"Cretain to be as productive as any of the rich mines above named."

R. SYMONS, Mineral Surveyor.

"Certain to be as productive as any of the rich mines above named."

R. SYMONS, Mineral Surveyor.

"Capital £50,000, in 50,000 shares of £1 each, payable 1s. on application, 2s. on allotment, 2s. 6d. one month after allotment, 2s. 6d. two months after allotment, 2s. 6d. one month after allotment, 2s. 6d. two months after allotment, 2s. 6d. two months after allotment, 2s. 6d. two months after allotment, 2s. 6d. one month after allotment, 2s. 6d. two months after allotment, 2s. 6d. one month after allotment, 2s. 6d. two months after allotment, 2s. 6d. one month after allo

allotment, 2s. 6d. one month after allotment, 2s. 6d. two months after allotment, 2s. 6d. two months after allotment, and the balance, IF REQUIRED, in calls of not more than 2s. 6d. each at intervals of not less than one month. THE SHARES MAY BE PAID UP IN FULL ON ALLOTMENT, IF DESIRED BY THE APPLICANT, AND A DISCOUNT OF 1s. PER SHARE WILL BE ALLOWED.

BE ALLOWED.

CERTAIN TO GO TO A HIGH PREMIUM.

CERTAIN TO GO TO A HIGH PREMIUM.

FOR SHARES and further particulars apply to—

ABBOTT & CO.,

STOCK AND SHARE DEALERS, STOCK AND SHARE DEALERS,

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SOUTH

proposed Islingtor casting, ment of part in th

MIDDLETON'S LODE DOUBLED IN VALUE.

Since cut-still improving-this lode has produced £1,000,000 worth of Silver-Lead from less ground than that now being worked, and it is believed at least

ONE AND A HALF MILLION MORE REMAINS.

The shares in the last working reached EIGHTEEN HUNDRED POUNDS EACH

On the London Stock Exchange.

INNES' LODE

RICHER NOW THAN EVER.

Fresh stopes are being continually opened, and increaing quantities of Silver-Lead raised.

A SPLENDID PILE OF SILVER-LEAD IS READY FOR SALE.

Every point in the Mine rapidly improving.

EAST WHEAL ROSE. OLD SHEPHERDS MINES.

MARVELLOUS IMPROVEMENT IN THE LODE.

The lode cut recently was worth TEN POUNDS PER FATHOM At the 10 level.

OVER TWENTY POUNDS PER **FATHOM**

At the 20 level.

OVER THIRTY POUNDS PER **FATHOM**

At the 30 level.

THE FORTY FATHOM LEVEL Is reached, and the lode has been seen rich.

It is now certain that the Silver part of this lode stands entire to the bottom of the Mine-one hundred and twenty fms. deep.

That it increases in value with every fathom in depth, and the part worked has produced

12 TONS OF LEAD PER FATHOM At the lower levels.

The ore from these lower levels assay (Vide Messrs. JOHNSON and MATTHEY'S CERTIFICATE) 186 OUNCES OF SILVER PER TON.

One of the richest Mines in England.

These Shares are certain to rise a considerably higher price than they are at present, and should be bought in large numbers at once.

SPECIAL.—We are prepared to give for the "CALL" of any of these shares for delivery, at any fixed time from two to twelve months, considerably higher prices than those now ruling.

We are Buyers for cash or the account at the best market prices of the day. Full descriptions in December Circular, now ready, and post free.

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versal distress, and that it would have a most prejudicial effect upon the industries of the world at large, the eminent French political economist M. Chevalier, where a book in which he recommended that there should be a silver standard of value instead of a gold one. As illustrating the notoriety of the Chairman might add that it was ents had taken a course exictly of the Prices of metals having risen, as was confidently forefold, but the prices of metals having risen, as was confidently forefold, but the distances of the prices of metals having risen, as was confidently forefold, that dold stream of Artenus Ward—"Dont you never prophesy unless you know." Hear, hear, and laughter.) Now, in his opinion, there could be no recovery in the prices of all the metals, and no revivification of the industries of Cornwall and the other mineral districts of the country, together with those metallurgical industries which were so closely associated with the had been proposed by France and America—to raise silver to a fixed entirely value with gold. When that was done, there would exist a greater entirely value with gold. When that was done, there would exist a greater entirely value with gold. When that was done, there would exist a greater entirely value with gold. When that was done, there would exist a greater entirely value with gold. When that was done, there would exist a greater entirely value with gold. When that was done, there would exist a greater entirely value with gold. When that was done, there would exist a greater entirely value with gold. When that was done, there would recollect that some years since an International Commission was proposed—the idea had one convention met at Paris, and the term of pregnant and so full of application to the pred them, They were as follows:—'The delegates of the United States and the property of the present time that he would, with the permission of the company of the control of the produce of the

ST. JOHN DEL REY MINING COMPANY.

ST. JOHN DEL REY MINING COMPANY.

The report of the directors prepared for presentation at the meeting on Wednesday next states that the produce of gold from April 12 to Oct. 11, both days inclusive, was 118,552-1 oits, or 13,713-2499 ozs. troy. The produce for the corresponding period of last year was 156,430-3 oits, or 18,033-8086 ozs. troy. The net profit on the working of the Morro Volho Mine for the half-year has been 1846, 4s. 4d., reserve fund interest during the half-year, 11551, 15s. 2d.; amount of net profit brought from last year was 7601. 18-7, 4-3762, 14s. 1d. The London expenses for the six months were 1279, 13s. 11d.; year's Income tax on profit brought from last year, 822, 17s. 11d.; six month debenture interest, 1750, 1822, 11s. 10d.; leaving 10 carry forward 1861, 2s. 3d.

The unfavourable results of sum paid on of the mine, whence the Set class of mineral is derived. This flooding was caused by an unusually heavy rainfall in the months of January and February. The quantity that fell in the large crater-like chasm, some 2 acres in extent, left by the falling in of the old mines was very great. Added to this a new feeder was opened up by the floods into the western workings. These combined raised the water in the old mines to an extraordinary height, and the pressures from it on the dam placed in the level connecting the old mine with one of the shafts broke it away and left the water diainage of ordinary feeders in the mine proved unequal to this extraordinary duty, and on being driven at more than usual speed, in the anxiety to get the mine unwatered, gave way on three several occasions, thus adding to the difficulty. It was not till aug. 4 that the sump was free from water, and not until a much later date that full working could be resumed. Every precaution has been taken to prevent a recurrence of a like casualty. A new dam has been constructed in the level, equal, it is believed, to any pressure that can be brought to bear office of the month of the surface from a shallow level. The pumps

ands, and they are still resolutely pressing the question forward in the proper arters.

South Wheal Crofty.—At the meeting on Dec. 8 (Mr. H. J. Lean in the chair), the accounts showed a loss on the 12 weeks' working of 8641. 18s. 2d., and a total debit balance of 35861. 11s. 2d. A call of 7s. 6d. per share was made. Capts. Thomas, Pascoe, and Phillips reported upon the various points of operation. Having passed through a lode in the 192, to the west of this end, they were hoping for an improvement shortly. The 180, west of cross-cut, on the north lode, was at Present working very much better than it had been, producing fine stones of In, mundic, and wolfram. The lode generally had been worth about 101. per lathom, and it was now probably worth 151., or more. The new compressor was fixed, and ready to work, and with larger boring machines, also a full supply of air, they would in future be able to drive the end more rapidly. Capt. Thomas capital that the 180 west, on the north lode, had very much improved, and was probably worth 251. a fathom. It had not been reported as worth so much, lest it might not continue. The granite in some parts was also of a very much better character than it had been. They hoped to have a great improvement in driving west from the present end back towards the cro s course, where they had entirely unexplored ground. The price of the was 61. less than at their last meeting. They now made 531. 10s. of it. SOUTH WHEAL CROFTY .- At the meeting on Dec. 8 (Mr. H. J

MECHANICAL AND MARINE ENGINEERING EXHIBITION—It is proposed to hold an exhibition of this class at the Agricultural Hall, falingtor, in July next, and will include exhibits relating to mining, casting, forging, rolling, workshop tools, and apparatus for the treatment of raw produce. Mr. Samson Barnett, jun., is taking an active part in the organization arrangements, and the details will be shortly alteration.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ANDERTON.—W. J. Bowhay, Dec. 18: We have been going on satisfactorily since our last report in all departments. We have been hindered by frost, which impedes our dressing work; but I am glad to say the milder weather which has come is in our favour again. The lode in the bottom of our level going down is really spiendid. We have been breaking some rocks of the as big as a man can lift, which, I believe, is three parts in; and flow you have arranged to have a steam-engine erected, we shall have very rich stuff to stope directly the pumps begin to work. Your early prospects look very bright indeed.

BEDFORD UNITED.—Henry Trezies, Dec. 12: We have not taken down the lode in the ends on the north lode, consequently there is no change. The tribute pitches are about the same as last week. M'Callan's engine-shaft is nearly down the required depth, the lode maintains its size and character. The 42 west is without change. The same level east is near being holed to the winze, lode without change. The lode in the 30 east is improved in size and value, is 6 tt. wide, and worth 30t, per fathom, a very fine lode. The stopes are about the same value. The lode in the 20 east is improved in appearance and very promising.

William Phillips, Dec. 13: Special Report: I did not inspect the works.

6 ft. wide, and worth 30. per fathom, a very fine lode. The vinze, west of shaft, is down 5 fms, below the 30, lode is without change. The stopes are about the same value. The lode in the 20 cast is improved in appearance and very promising.

— William Phillips, Dec. 13: Special Report: I did not inspect the works on north lode yesterday, but was informed that the 115 cast, and 103 west are looking very promising, both points yielding ore. The 115 cast is becoming very interesting on account of being near the cross-course, or great silde, on both sides of which the Wheal Marquis became so productive. The tribute pitches here are still looking well, and further considerable yields of copper and mundie will be returned from them.—Bridge Lode: I went over the different points of operation here and found but little change either in the shaft or in the western parts. The side referred to above intersects this lode some distance to the west of the present workings in the shallow levels, but on account of its great dip eastward the shaft and deeper levels will be very near to it, and I do not anticipate any important discoveries in this direction until a nearer approach to the slide is made. The 42 cast is looking more promising, and is letting out water freely. As soon as this level is communicated to the winze from the 30, which will be done in about another week, a cross-cut will be put out north to see if any part of the lode is yet undiscovered, and, judging from appearance in the upper level, I consider it very probable that more lode will be found. The appearance of the lode in this level for the first 20 fms. in length, east of the shaft, as well as in the backs of the 30 and 20, warrants the belief that the whole of the ground from the 42 to near the surface will be profitably stoped. I find in comparing the gradual laying open of this lode with that of the famous Wheal Marquis in the same mine, that the progress is attended with remarkably similar results. It is in the memory of many, and an inspection of th

east end is at present unproductive, man when the cast look, and is not yet through the cast look, which is now showing to be a considerable size; it continues to be intermixed with copper. We have at last cut through the Bulwark lode in the Bulwark cross-cut, and have now taken the men to open out and drive upon the orey part of it to prepare for stopes ready for next month, and I expect will thus enable us to make good returns. There is no material change in the 40 drivings north and south since last reported on. The weather during the past week has been a little more favourable for surface work, and we have made good twares and the surface work, and we have made good twares a duping it.

week has been a little more favourable for surface work, and we have made good progress during it.

BWLOH UNITED.—W. Northey, Dec. 13: The stopes in back of the 30 are looking well, and will yield an average of 16 cwts. of silver-lead ore per fathom. The stope in back of the 12, under adit, will yield about 10 cwts. of silver-lead ore per fathom. A stope in the 50 is producing good saving work for the dressing-floors. In the stope in back of the 15, under adit, Marvin's lode will yield 10 to 12 cwts. of silver-lead ore per fm. In the cross-cut north, in the 50, the stratum is more congenial for the production of lead ore, and the ground a little easier for driving. There is no change in the character and value of the lode in the 100 since my last advice. The men have been stopped on account of the severe frost and snow, which shuts up the wheel by night. The dressing and drawing are also at a stand, and unless the weather changes a number of men will be thrown out of work.

drawing are also at a stand, and unless the weather changes a number of mea will be thrown out of work.

OARNARVON COPPER.—W. Darby, J. Roberts, Dec. 12: The end at the 58 (Garnon's) continues to look very kindly, and letting out a little water with strong patches of sulphur along the heading side of the lode. The sump at the 70 (Cae-y-gross) has become very poor and hard; therefore, we have suspended it, and put the men up to the 36 (Cae-y-gross) to cross-cut the lode under the old sump, and where a large bunch of ore has been lost. The lode at present has a very kindly appearance, and it would be nothing surprising if we should shortly cut into a good bunch of ore here. All the tribute pitches continue much the same value as for some time past. On surface we are at a standatill, the recent heavy fall of snow, and the sharp frost has completely blocked up everything, and it is with great difficulty that we manage to keep the waterwheel to pumps going.

CARN OAMBORNE.—W. C. Vivian. Dec. 14: The 25 weet of the surface water the surface water the water-

everything, and it is with great difficulty that we manage to keep the water-wheel to pumps going.

CARN CAMBORN E.—W. C. Vivian, Dec. 14: The 35, west of sump, on the south lode, is to-day looking better than it has ever done. The lode altogether is 3 ft. wide, and the north part, which varies from 1 to 1½ ft, in width, is made up of rich yellow copper ore and fluor-spar. It will yield about 2 tons of very good ore per fathom. The lode has the same character and composition as the great copper formations, of which I have had long experience in some of the best copper mines of this district, and I, theretore, anticipate with a certain degree of confidence further improvement in driving this level towards the cross-course, which is about 39 fms. shead. I am also of opinion that this discovery which we hall find continuing to a considerable depth telow the 95. Beneath the copper we may confidently calculate on finding a large tin formation, as was the case in the adjoining mine—Dolcoath. The 70 cross-cut north has not yet reached the north lode. In the 49 west the north lode is 4 ft. wide, carrying a leader of copper are on the south wall, and presenting sufficient indications to lead to the expectation of our making a discovery of value by continuing this level further west.

CARNARYONSHIRE GREAT CONSOLS.—W. H. Borlase, Dec. 12: Caunter Lode: The 24, west of Endean's cross-cut, is producing saving work for lead; the bottom and back are showing a saven were nice ore. The level north of cross-cut.

level further west.

CARNARVONSHIRE GREAT CONSOLS.—W. H. Borlase, Dec. 12: Caunter Lode: The 24, west of Endean's cross-cut, is producing saving work for lead; the bottom and back are showing some very late ore. The level north of cross-cut, on the north and south lode, is very favourable for driving, and is producing lead, but not enough to value; the lode is very porous, and is letting out a stream of water from the bottom of the end. The intermediate level, west of No. 1 winze, below the 14, east of the caunter lode, is producing 10 cwts. of ore per fathom. The 14 least is not looking so well as when last reported on, owing to some small vughs coming in the lode, which is now producing 20 cwts. of ore per fathom. The winze in the advance of this end from adit is producing 20 cwts. of ore per fathom. Stope east of winze, for the part being carried, 15 cwts. per fathom. Stope west of No. 2 winze, in the bottom of the adit, is producing 20 cwts. of ore per fathom. Stope west of No. 3 winze, 25 cwts. of ore per fathom. Producing 20 cwts. of ore per fathom. Stope west of No. 3 winze, 25 cwts. of ore per fathom part the lode is standing on the footwall. Stope east of Big Pass, 18 cwts. of ore per fathom. The winze below the 14 west is sunk 5 fms. on the south part the junction, and I have now put the men to drive to the north to find the hanging wall to prove this point. There is a little lead in the end, not enough to value.—East and West Lode: The lode in the diagonal shaft is producing a little more lead than when last reported on, but not to value. This shaft is now 10 fms. 3 ft. below the 14; as soon as we are deep enough for a fork and have put a soltar in, I shall drive cast and west on the course of the lode, to accomplish which it will take, no doubt, two weeks more. I shall be greatly disappointed if we do not meet with a very productive lode after driving west about 3 fathoms. The 14 end, west of diagonal shaft, is producing 10 cwts. of ore per fathom. The stope in the back to unwater the bottom of the and I contemplated rising in the back to unwater the bottom of the auit between the footway and diagonal shafts. The weather continues very unfavourable for outdoor work, and the dressing department is standing, and unless we can crush to-morrow I shall be obliged to stop the winding-engine, as we are full of stuff at surface. The roads being so bad we have not been able to send down the lead to the depot; consequently we have a parcel at each place, this, with no dressing being done for the last week, has delayed our sampling. I have taken advantage of the stoppage to change our crusher rolls, which have got very thin.

done for the last week, has delayed our sampling. I have taken advantage of the stoppage to change our crusher rolls, which have got very thin.

COED-Y-FEDW AND PANT-Y-BUARTH.—R. Prince, Dec. 15: The south driving on the cross lode has now been extended to a point in a line undernexth Rowland's shaft. I have, therefore, decided to put the men to rise up, so as to obtain a communication between our workings and the bottom of Rowland's shaft. We shall then not only secure ventilation for the whole mine, but unwater Rowland's shaft, and be able to raise the large quantity of staff that is now left at the bottom. The joint we intersected in the 107 cross-cut looks very well, but we cannot operate upon it until we have the communication referred to. The prospects are I think, very satisfactory.

CROOK BURN.—J. Craig, Dec. 7: I have nothing new to report in the end of the new level this week; \$ fms. 2 ft. have been driven for the pass month and the driving is set for the same prire per fathom for the present month. The men have been compelled to give up working to-night for the week, it being quite impossible to keep the level month open, the snow blows it up so fast.

CWMYSTWITH.—Joseph B. Rowse, Dec. 13: I am pleased to ray that the lode in the stope under Level Fawr is opening out well, and maintains its masterly appearance, containing lead throughout, for a width of 12 ft. In clearing the attle from the western end of this stope we find the loca equally as productive. The tribute pitches worked throughout the mine are producing enough lead and blende to eaable us to maintain our usual monthly samplings. Number of pitches now worked, 13, by 39 men. The heavy fall of show we had here about a week ago put a stop to all our surface work. We have also been getting sharp frost every night. A deep cover of snow is still on the ground, and water courses full. We sent out samples yesterday of 30 tons of blende for sale on Jan. 2.

CWM DWYFOR AND BRYNARIAN (Brynarian Mine).—J. Davis, Dec. 12:

CWM DWYFOR AND BRYNARIAN (Brynarian Mine).—J. Davis, Dec. 12: Joseph's Level: The lode improves in width and appearance.

D'ERESBY MOUNTAIN.-J. Roberts, W. Sandoe, Dec. 13: We have no par-

D'ERESBY MOUNTAIN.—J. Roberts, W. Sandoe, Dec. 13: We have no particular change to report in any place since our last. The lead in the No. 5 cross-out, which we referred to last week, is looking very well, both north and south. At the top of the rise we are opening and squaring up the ground, so as to be able to drive north and south from this point. The lode is about the same value as last reported. The stopes in the bottom continue the same. The frost, which is very severe, has partially stopped our dressing. We are able to treat the stuff at the picking grate, but the crushing we cannot keep going continuously.

DEVON FRIENDSHIP.—F. R. Daw, W. Gill, Dec. 13: Setting Report: The 42 end, west of Bennett's shaft, is set to four men at 10. per fathom; the lode is 4 ft. 6 in. wide, and worth 122, per fathom for arsenical mundic and tin. We are occasionally breaking some very good stones of copper ore from this end. The No. 1 stope, in the back of the 30, west of Bennett's shaft, is set to two men at 24. 10s, per fathom; the lode is 4 ft. wide, and worth for arsenical mundic 50, per fathom. The No. 2 stope, in the back of this level, is set to two men at 22. 22. 5s, per fathom; the lode is 7 ft. wide, and worth for arsenical mundic 52, per fathom; the lode is 4 ft. wide, and worth for arsenical mundic 52, per fathom; the lode is 4 ft. wide, and worth for arsenical mundic 52, per fathom; the lode is 4 ft. wide, and worth for arsenical mundic 52, per fathom; the lode is 4 ft. wide, and worth for arsenical mundic 52, per fathom; the lode is 4 ft. wide, and worth for arsenical mundic 52, per fathom; the lode is 4 ft. wide, and worth for arsenical mundic 52, per fathom; the lode is 5 ft. wide, and worth for arsenical mundic 52, per fathom; the lode is 5 ft. wide, and worth for arsenical mundic 52, per fathom; the lode is 5 ft. wide, and worth for arsenical mundic 52, per fathom; the lode is 5 ft. wide, and worth for arsenical mundic 52, per fathom; the lode is 5 ft. wide, and worth for arsenical mundic 62, per fathom;

the weather to-day is much milder, and we are pushing on with all possible speed again with dressing.

DEVON GREAT CONSOLS,—Isaac Richards, Dec. 14: Wheal Josiah: In the 144, east of the count-house shaft, on the new south lode, the lode is 4 ft. wide, composed of capel and quartz, with small quantities of copper and mundle ores.—Wheal Emma, Inclined Shaft: In the 137 east, east of Friend's cross-cut, the lode is 3½ ft. wide, and composed of capel, quartz, peach, fluor, some copper ore of good quality, and 1 ton of mundic per fathom.—New Shaft, New South Lode: In the 115 east the drivage is being continued by the side of the lode for more speedy progress.—Railway Shaft: In the 205 west, on the south part of the lode, In the 190 west, on the south part of the lode, In the 190 west, on the south part of the lode, the lode is 4½ ft. wide, and worth 2 tons of ore and 2 tons of mundic per fathom.—And its general character is most promising. In the 160 west, on the south part of the lode, the lode is 4 ft. wide, composed of capel and quartz, with a little good quality copper ore, and 1 ton of mundic per fathom.—Watson's: In the 100, west of the engine-shaft, the lode is from 4 to 5 ft. wide, of a promising character, and yielding good stones of copper and mundic ores. In the western shaft sinking below the 20 the ground continues of a congenial character for the projection of mineral. In the 20, east of the western shaft, the lode is 2 ft. wide, yielding some saving work of copper and mundic ores.

DEVON GREAT UNITED.—Isaac Richards. Dec. 14: In the 120, east of the western shaft, the lode is 2 ft. wide, 2 ft. 2 ft.

is from 4 to 5 ft. wide, of a promising character, and yleiding good stones or copper and mundic ores. In the western shaft, the lode is 2 ft. wide, yielding some saving work of copper and mundic ores.

DEVON GREAT UNITED.—Isaac Richards, Dec. 14: In the 20, east of Wilesford's shaft, the lode is 2 ft. wide, and yielding small quantities of copper and mundic ores. The distance driven during the past week is 2 ft. In the 120, west of Wilesford's shaft, the lode is 3 ft. wide, composed of capel and quartz, with peach, mundic, and a little copper ore. The distance driven during the past week is 1 ft. 6 in. We hope to have the rock-drills at work in these two points of operation in the course of a few days, when our speed of driving will be considerably increased. In the cross-cuts north and south at the 60 west, on the Middle lode, the ground is without attention. The distance driven north during the past week is 1 fm. 2 ft. 6 in., and south 2 fms. In the 60 west on the Capel for lode, the lode is from 1 to 2 ft. wide, composed of capel and quartz, with small quantities of mundic and copper ores.

DRAKEWALLS UNITED.—M. Bawden, Dec. 14: Setting Report: We have the following bargains and pitches now at work; —The deep adit level to drive the following bargains and pitches now at work; —The deep adit level to drive the following bargains and pitches now at work; —The deep adit level to drive the following bargains and pitches now at work; —The deep adit level to drive the following bargains and pitches now at work; —The deep adit level to drive the following bargains and pitches now at work; —The deep adit level to drive the following bargain to the driven and the deep adition of the driven and the driven an

during the month.

EAST BOTALLACK.—John Hollow: The adit is now clear into the level, which is driven on the new Balleswidden lode, and which we are now clearing, and hope to see more of the lode in a few days; so far it is all taken by the old

which is driver, on the new Balleswidden lode, and which we are no w clearing, and hope to see more of the lode in a few day; so far it is all taken by the old workers, which is a good sign.

EAST DARREN.—Thomas Garland, Dec. 15: In the 80 end, west of stope under the flat, the lode is large and hard for exploring, being composed chiefly of beds of grit, carbonate of lime, and lead ore, yielding of the latter 1 ton per fathom, and looks promising for further; improvement.—In the 68 end, west of Yaughan's winze, the forebreast contains branches of carbonate of lime, showing small spots of ore. In the stope over the 92, opposite Taylor's shaft, the lode is 2 ft. wide, and yielding 12 cwts. of lead ore per fathom.—In the stope over the 92 west, on south lode, we have met with a flat in the root, which is cutting out the ore, and very probably will heave the lode into the north side. In the two stopes over the 50 west the lode has very much failen off in yield of ore, at present producing saving work. We have done but little towards drawing and dressing in the past week, owing to a heavy fail of snow and hard frost, and at present there is no sign of a change.

EAST ROMAN GRAVELS.—Athur Waters, Dec, 14: The 109 south is now in a lode 3 ft. wide, wor.h 1 ton of lead ore and 2 tons of blende per fathom. The vein is now in two divisions, and has failen off in value for lead ore a little; but we think it will improve in value again shortly. The 97 south is worth 1 ton of lead ore per fathom on the hanging wall portion, but from the heavy flow of water to-day we expect to see more lode come in from the east side, and that the vein will then become more productive than we have yet seen it at this level. The stopes in the 86 south are worth together 37 cwts. of lead ore per fathom. The mine at surface is snowed up, but if we can get supplies of coal forwarded to the station the water will be kept out, and the crusher and jüggers (all under cover) kept going in the usual way.

EAST WHEAL LOVELL—R. Quentrall and Son, Dec. 1

to the station the water will be kept out, and the crusher and juggers (all under cover) kept going in the usual way.

EAST WHEAL LOVELL.—R. Quentrall and Son, Dec. 13: Engine Lode We are driving through the lode in the 46, east of engine-shaft, which is producing a little tin. The lode in the 46 west is a little smaller than last reported but it is yielding some good tinstuff. The stope in the back of the 46 east is worth 12\(\ell\), per fathom.—Rogers's Lode: We shall complete the middle shaft to the 66 next week. In the stope in the back of the 54 east the lode is worth 15\(\ell\) per fathom. We have broken some very rich tinstuff from the winze since the last report.

per fathom. We have been solded by the fathom. He had been grown as the carried 6 ft. wide, of a most promising description, producing 18 tons of arsenical mundic and copper ore per fathom. The lode in No. 1, No. 2, and No. 3 stopes in the back of this 117 level is worth in the aggregate 40 tons of mundic and copper ore per fathom. The lode in the stope in the back of the 105 is worth 10 tons of mundic per fathom. The lode in the stope east of cross-cut in the bottom of the 95 is worth 6 tons of mundic per fathom. No. 2 stope, in the bottom of the same level, west of cross-cut, is worth 10 tons of mundic per fathom. All other points are without change.

fathom. The lode in the stope in the back of the 70, east of croas-cut, is worth 10 tons of mundic per fathom. All other points are without change.

GLASGOW CARADON CONSOLS.—W. Taylor, W. J. Taylor, Dec. 4: South Lode: The 114 cast is worth 5% per fathom; the ground and lode improving, and we look for better results shortly. This level west is producing stones of ore, but it has not so far improved as we had hoped. The stopes on this lode are worth 3%, and 10% per fathom respectively.—Harvey's Lode: The 114 west is worth 10%, per fathom; this level is just going on in a horse, the lode better both in the back and bottom of it; we are expecting to come to the end almost daily, when we shall no doubt get a much more valuable lode. The ground and lode are easy, and altogether have a very promising appearance. This level east is producing some good ore, and worth about 5% per fathom. In the 10% west the ground is still hard and lode poor. The stopes in the back of this level are worth 10%, and 12% per fathom. The 90 west is worth 7%, per fathom; ground more favourable, and likely to impreve. The 90, west of north lode is, worth 8%, per fathom; we have just passed a small cross-course here which we expect will improve the lode, as was the case in the stopes over. These stopes are now worth 8%, and 13%, per fathom respectively. No change to notice in the tribute pitches of importance since our report last month. The computed quantity of ore for our next sale is 170 tons, which will be sold on Dec. 21.

GODDARD'S LEAD.—R. H. Vivian, Dec. 14: There is no particular change to notice since last week; everything is going on very astisfactorily.

GODDARD'S LEAD.—R. M. Vivian, Dec. 14: There is no particular change to notice since last week; everything is going on very astisfactorily.

green carbonate, spots of yellow copper, and saving work for tin. There is everything in the character of the lode in this end, which is being driven into the unexplored ground to the east, to lead to the expectation of our meeting with a rich lode. The shallow drivage east is also set to four men, at 5t, per fathom; lode 5ft. wide, producing low quality tinstuff, with a promising appearance to further improve. To drive south from the engine-shaft, by four men, at 4t, per fathom; ground favourable, and good progress being made. In consequence of the sharp during frost during the past few days the different piles of tinstaff on the floors are so much frozen that little can be done by way of dressing. We are, however, keeping the stamps at work, and as soon as the weather changes so as to admit the dressing being proceeded with, we shall in the course of a week or two be in a position to make another sale of tin.

GORSEDD AND MERLLYN.—W. Edwards, Dec. 15: The 90 west level looks better this morning, and there is more lead coming in the roof. The lode we are driving upon is getting very much wider, and the beds are dipping, the latter being an excellent indication that we are very close to the north and south lode.

GREAT HOLWAY.—W. T. Harris, Dec. 13: Reakell's Sheft of the 25 of the course of the same content of the same course of the same c

latter being an exceitent indication that we are very close to the north and south lode.

GREAT HOLWAY.—W. T. Harris, Dec. 13: Roskell's Shaft: In the \$5 north the lode is 1½ ft. wide, offan encouraging character and yielding stones of lead, an improvement upon last report, and very promising for a further improved change, an increase of water flows from the forebreats, and the ground is easier for progress. In the rise in back of the \$0 west the lode is 1½ ft. wide, in composition as for some time past, containing blende worth 1 ton per fathom, and occasionally stones of lead, and improving.—Level Engine-Shaft: In the \$0 cast the lode is 2 ft. wide, worth 1½ to nof lead ore per fathom, and to-day exhibits a splendid appearance, and am daily expecting a discovery of great value. The same level driving west is producing 1½ to nof blende per fathom, ground hard for progress. Stope No. 9 has slightly improved for lead, now worth 15 cwts. and 1½ ton of blende per fathom. No. 2 pitch worth 15 cwts. of lead and 2½ tons of blende per fathom. No. 2 pitch is producing 1½ tons of lead and 2 tons of blende per fathom. No. 5 pitch worth 15 cwts. of lead and 1½ ton 5 blende per fathom. No. 5 pitch worth 15 cwts. of lead and 1½ ton 5 blende per fathom. No. 5 pitch worth 15 cwts. of lead and 1½ ton 5 blende per fathom. No. 5 pitch within the last day or two has been disordered by a crossjoint, but has again resumed its former productiveness, and is now worth 4½ tons of lead and 1 ton of blende per fathom.—Partridge Shaft: The toy in the sum of the per fathom and the per fathom of lead and blende in paying quanties.—Brammock Shaft: No. 4 pitch in in back of the 60 cast is worth 12 cwts. of lead and 2 tons of blende per fathom. No. 7 pitch, west of shaft, maintains the improvement reported last week, now worth 15 cwts. of lead and 1 ton of blende per fathom.—Partridge Shaft: The tode in the 50 wests 15 ft. wide, carbonate of lime, in which small cubes of lead are cocasionally seen, a promising lode. In the 90 east the lode is 1 lode. GREAT HOLWAY.—W. T. Harris, Dec. 13: Roskell's Shaft: In the 95 north the lode is 1½ ft. wide, of an encouraging character and yielding stones of lear

brought to surface; nottine will be lost in arranginghe machinery and in bringing this portion of the mine into a working position, being very sanguine of great success in the development. Have sampled 3 tons of blende, and in a day or two shall sample lead.

GREAT LAXEY.—F. Reddieliffe, Dec. 13: The portion of the lode carried in sinking Welsh siaft contains atoms of ore occasionally, and the sinking progresses at a fair speed. In the 239 end north the lode continues to produce ore greater and on orth, but so is as seen not very rich in character (54, or so per fathom); the whole, however, is not yet out through, and may a ld to the value of the 247 end north, but so is as seen not very rich in character (54, or so per fathom); the whole, however, is not yet out through, and may a ld to the value and north is without change, but the winze sinking from the 220. In advance of this end, is a liktle further improved, being worth fully 354, per fathom. The 235 end end north is without change, but the winze sinking from the 220, in advance of this end, is a liktle further improved, being worth fully 354, per fathom. The 137, has been discontinued. The working in the roof of the 210 aouth, gening to be a little close for the want of air. The men have been placed to sink upon it from the 200, the lode there being worth 154, per fathom. The other working places in this part of the mine are without change, and ranging from 36, to 137, per fathom in value.—Dumbells: We have not yet got upon the lode in the 230 end, and cross-cutting is still being prosecuted. In the 215 end the lode is small just new, and worth 154, per fathom. There is almost an entire absence of value from 154, to 554, per fathom. The 45 south end is a little improved, and more water; worth 10 cwts, per fathom. The 44 south end is a little improved, and more water, worth 10 cwts, per fathom. The stope in the bottom of Standage is worth 5 tons per fathom. No change in the other bargains. The 44 south of 154 is dept in the surface and will be surface and

duce good stones of copperators the dead of the control of the con

the mine.

LANGFORD.—R. Goldsworthy, Dec. 12: The new drawing machinery is working very satisfactorily, and I hope to commence clearing and securing the 30 east with six men on Monday next. All the timber necessary at present for dropping our lift has been put in, and the clearing commenced. All the water being in the shaft we are obliged to drop with screws.

being in the shaft we are obliged to drop with screws.

LEADHILLS.—Arthur Waters, Dec. 14: Brow Mine: Gripp's adit going south of Glengonar engine-shaft is exploring a strong good looking quartzy lode of file and No. 3 mundic sits worth. The stop of the distance of Glengonar engine-shaft is exploring a strong good looking quartzy lode of file and No. 3 mundic sits worth in the distance of the di LEADHILLS .- Arthur Waters, Dec. 14: Brow Mine: Gripp's adit going south

south but t main favor Gund per f ore I ground In the rin 11 also i lode i a very of ore wide, of sha In the

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nod disco we have a sewer. per report. T und the ba NORTH cross-cut, and the er pur last pa or the mo or the modes; the pides; the pides; the pides; the pides; the pides; when thich wor the pides of OKEL T week. The good stones lode in the

OLD SH South Min-water to a conoke, positioned to facil and to facili which is no fix a set of i fix a set of i tump shaft tump shaft burstory to will be erec will be erec wie hope sh we find the fathom, and can now filment of gineers are: gineers are remark may machinery in Paky's Conform you

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and snow, but the carpenters are pushing on with the new work for slime-floors and so forth as fast as possible.

LLANDEGLA.—H. Hotchkies, Dec. 13: New Shaft: The only change we have here is a slight decrease in the flow of water, the rock is becoming a little stronger, the lode is about the same in size and character. Our lift works well and answers our purpose admirable. Snow falling heavily to-day.

MARKE VALLEY.—Win. George, Francis Reuals, Dec. 13: Setting Report: 70 dive the 90 west, on Rosedown lode, by six men, at 8ℓ, per fathom, where it is about 2 ft. wide, of such a promising character as leads us to hope for an early improvement. No. 1 stope, in the bottom of this level, is set to eight men, at 4ℓ, 10e., where the lode will yield 2½ tons of ore per fathom. No. 2 stope to six men, at 3ℓ, 15s., yielding 3 tons per fathom; and No. 3 stope to four men, at 4ℓ, 5s., yielding 2 tons per fathom; and No. 3 stope to four men, at 4ℓ, 5s., yielding 2 tons per fathom; and No. 3 stope in further the lode is level, each set to four men, at 4ℓ, and yielding 2 and 2½ tons per fathom. This level, each of No. 1 rise, by four men, at 8ℓ, per fathom; the lode is fully 2½ ft, wide, producing good quality ore, saving work, and judging from the lode in the back of the 90, a little to the east, we expect soon to get an improvement. To drive the 80 cast of No. 1 rise, by four men, at 8ℓ, per fathom; the lode is fully 2½ ft, wide, producing good quality ore, saving work, and judging from the lode in the back of the 90, a little to the east, we expect soon to get an improvement. To drive the 80 cast of No. 1 rise, by six men, at 12ℓ, per fathom. This still continues a very important point, and is being urged on as fast as possible. We have set nine pitches to 27 men, at tributes varying from 8½ to 13 stope the production of name of the production of the same are still making very good progress. The 70 cross-cut, north of the man lode, is going through a mineralised channel of ground, which is looking favourable for the product

good deal of water, and we are expecting to meet with an improvement for the very soon. The stopes and pitches throughout the mine are just the same as when last reported. We estimate our next sampling to be about 600 tons of copper ore.

MID-DEVON COPPER.—James Nelll, Dec. 9: In A shaft pumping machinery has been stopped for a few hours for slight repairs, and water is now 3 fms. below the 70, influx increasing, requiring \(\frac{4}{2}\) revolutions of wheel to cope with \(\frac{1}{12}\). OShaft: The 45 stope, east of shaft, worked by eight men and one boy, is still same character of strata for yield of ore. We have intersected an oblique fissure in eastern part of stope which emits a foul gas; when atmosphere at surface is murky it affects ventilation, and occasionally so much so that men cannot work near it. I then employed them driving a cross-cut north from bottom of \(\frac{1}{2}\), where the stratum is congenial, and should, as it is extended, intersect the same run of strata that has been so productive at the stope above. It is at present yielding small nests of ore of good quality. Ore raised this week 15 cwis. The 50 east, driven by six men, 5 ft., the strata chiefly composed of capel, garnet, hornblende, with yellow ore, and arsenical mundic, occasionally in saving quantities. It is a very promising drivage, and the indications are such that I expect on the eastern side of next cross-course, which cannot be far distant, to see it materially improve.—Surface, Rock-Drill, Wheel Pit: Masons have not worked since Wednesday, owing to heavy snowstorms, with sharp frosts. All other work proceeding as fast as weather will permit.

MONA.—T. F. Evans, Dec. 6, in concluding a detailed report on the operations at the mine says:—The mine and smelling works are well stocked with all the materials necessary to carry on operations throughout the winter, and all the heavy works which we undertook when the company was formed have now been completed. All is in perfect order, and the mine is at last well laid out for

mineral putting in the vein and pieces of ore.—Low Level: We have got up to the rise foot under the old climbing-way shaft, having taken out the arch and put in new where it was required, and repaired the other arch up to this point. I expect 4 or 5 fms. more will put us into open ground that will take very little op us it in good order, so that now we are in a fair way for getting shortly to the forehead. During the last two weeks we have cleared out and put into good working order 18 fms. of level.

PENHALLS.—S. Bennetts, J. Goyne, Dec. 13: The lode in the 70 cast end is without much change, is producing some tinstuff, but not to value. In the 60 cross-cut north there is no further lode cut as yet. The 60 cast end, on the south section of the lode, is worth 3t, her fathom, and the west end on the same part 5t. her fathom. On the Baldhu lode the 40 west end is worth 5t. per fathom, and the winze below the 30 is a present poor.

PENNANT.—Dec. 15: Our various stopes continue to show improvement, and there is greater activity in the deliveries of stuff to market.

PEN-YR-ORSEDD —R. Prince, Dec. 15: The water is drawing away from the bottom of the shaft, so I am looking forward to proving what the men have lately cut into in sinking. We find after careful dialling that the Halkin tunnel will come underneath our shaft below the 170, so that we shall have a very large stope of ground that we can work away on the course of the lode. Fair progress is being made in the extension of this tunnel, and any day we may be enabled to operate to the depth mentioned, when there can be no doubt we shall have a very important mine.

PERRAN SILVER-LEAD CONSOLS.—Edward Moyle, Wm. Niness, Dec. 14:

is being made in the extension of this tunnel, and any day we may be enabled to operate to the d-pth mentioned, when there can be no doubt we shall have a very important mine.

PERRAN SILVER-LEAD CONSOLS.—Edward Moyle, Wm Niness, Dec. 14;
The total depth of Phemix shaft below the 60 is 11 fms. 5 th. 10 in.; the lode is the full width of the shaft.—5 tt. 5 in.—the eastern part of which is chiefly composed of hard quartz. The western side, or the footwall, for 2 ft. wide is more compact, and producing splendid stones of rich aliver-lead. There is no doubt from the present appearances of the lode in the bottom of the shaft that Phemix is the champion lode of the district, and from which far better results than we have yet had may be anticipated. The 60 end south is driven from shaft 31 fms. The portion of the lode we are taking with us is 2 ft. wide, and consists of nicooking soft quartz, prian, and a branch of rich sliver-lead; it he ground is easy and chest for driving, as will be seen by our setting, and everything about the lode indicates a great improvement in its value. The easy nature of the ground will enable us to push on rapidly to the junction of the canner, where, as we have before stated, we expect a large deposit of lead. The wing below the 60, north of shaft, is down 5 fms. 1 ft. 7 in.; the lode is 4 ft. wide, of quartz, prian, and sliver-lead, the greater portion of which is saving work for quartz, prian, and sliver-lead, the greater portion of which is saving work of the suspend operations for a time. The rise above the 60, north of shaft, is down 5 fms. 1 ft. 7 in.; the lode is 4 ft. wide, of quartz, prian, and sliver-lead, the greater portion of which is saving work to suspend operations for a time. The rise above the 60, north of shaft, is down 5 fms. 1 ft. 7 in.; the lode is 4 ft. wide, of quartz, prian, and sliver-lead, the greater portion of which is saving work of the saving work of the first of the f

bargains are re-set at an average price of re-secured the new boiler flue, and uncovered the old boiler, which we intend to pull out this week.

POLROSE.—W. Bennetts, Dec. 13: Since my last report we have fixed and made good a standing lift at the 80. This was set to work yesterday, and is answering well. We have now to cut a little more ground for bearers at the 80; this and fixing the bearers will be finished in aday or two, and I hope by Friday to commence dropping the lift below the 89. Everything so far has gone on satisfactorily since we began to fork below the 70.

PRINCE OF WALES.—S. Robert, Dec. 12: The lode in the 102 east is 3 ft. wide, composed principally of capel and spar, and worth 8!, per fathom for tin, with very good stones of copper ore; the men are now driving by the side of the lode. In the rise in the back of this end the ground is a little better for rising, consequently better progress is being made. There is no change in the cross-cut north at the 102 west. I have to-day put the men to drive south to ascertain if the lode is gone in that direction before we drive further north. The lode in the 90 west is still disordered, being altogether 2 ft. wide, composed of capel, syar, killas, and a little copper, and from it water flows very freely. In the stope in the back of this level the lode is worth 8!, per fathom for tin, with occasional stones of copper ore. No change in the 7 cross-cut south.—Goodluck: Stope in back of the 28, lode 4 ft. wide, worth 8!. per fathom for tin.

copier. The lode in the stope in the back of the 30 east is 3 it. wide, worth 10. per fathom for tin, with occasional stones of copper ore. No change in the 77 cress-cut south.—Goodluck: Stope in back of the 28, lode 4 ft. wide, worth 8. per lathom for tin.

ROMAN GRAVELS.—A. Waters and Son, Dec. 14: We have been underground here to-day with a gentleman who is a shareholder, and who came to inspect the mine for a friend, who is also a shareholder in the company; this being so, we have to state that the mine has not looked better for a long time, and to go into details would only be repeating to the shareholders what we have said over and over again. The pumping engines as well as those for whiding and crushing are being kept going regular, y, but owing to frost and a great depth of snow dressing operations are much delayed. The whole country about the mines is covered with anow 14 in. deep.

RUSSELL UNITED.—J. Bray, Dec. 3: The lode in the 37 west has very much improved since yesterday, producing large stones of rich yellow copper ore.

— J. Bray, Dec. 3: I am now up from the 37, and am very pleased to say the lode in the western end is worth full 5, per fathom for copper ore, and very like y to improve. At present we have a fine looking lode.

— J. Bray, Dec. 14: The lode in the 97, west of cross-cut, 18 ft. wide, worth for copper 7t., and likely to improve. The lode in the eastern drivage at this level is 4 ft. wide, beautifully spotted with copper and mundie—a very kindly end. Stephen's engine-shaft continues much the same as last reported.

SILVER HILL.—G. Rickard, Dec. 14: Our efforts in extending the tunnel level cross-cut north have not as yet been rewarded by the cutting of the lode, but we may do so any day. The ground continues all that can be desired for the production of mineral, being a beautiful-looking clay-slate, mixed with prian and friable spar, with patches of mundie and copper ore. Water still continues to low in large quantities from the bottom part of the forebreast, and very likely it wil

dead the diferent as soon of converging.

— J. 1987, Dec. 14. The isoles in the 97, went of consecut, is 5 ft. which worth in the first of the significant and all commonwed of the part of the state of weather, heavy falls of snow and hard frost, which weather, heavy falls of snow and hard frost, which work, but we have managed to keep the water-wheels working and a part of the work, but we have managed to keep the water-wheels working and a part of the dressing going. The 45 tons of silver-lead ore sold on the 8th inst. realised 6324. 5s.

SOUTH DEVON UNITED.—Wm. Hooper, Dec. 14: The lode in the 110, east of Brook engine-shaft, is from 3 to 4 ft. wide, with a value of 104, per fathom, and every appearance of a further inprovement, as the water has not abate 1 in the 100. We think it advisable, after driving 3 to 4 fms. further in the above direction, to put up a rise in the back of this level, when no doubt we shall lay open a valuable piece of ground for stoping. The stopes in the back of this level are pworth as follows:—No. 1, 64.; No. 2, 94.; No. 3, 84.; and No. 4, 84. The stopes in the back of the 110 and 100, west of Brook shaft, are worth—No. 1, 94., and No. 2, 64. Fine stopes in the back of the 100 million. In the stope in the shake of the 100, cast of Brook shaft, the lode is 4 ft. wide; worth 84. per fathom. The lode in the 39, east of Brook shaft, in the lode, is 4 ft. wide; worth 84. per fathom. The lode in the 39, east of Brook shaft, with a pot single promising character. In Martin's shaft the lode may be a shaft the lode at the 155, as far as seen (5 ft.), its composed principally of spar, with apots of both mandic and copper ore. On Monday has the men cut a large increase of water, which for the time was more than we could deal with, and reserved the shaft. He was the shaft the lode, which has every appearance of being large.

SOUTH TOLCANNE.—Thomas Angove, Samuel Arthur, Dec. 13: The sumpmen are at present employed in cutting plat at the 75. The 70 end west lode is worth 104, per fathom. The rote of the lode is worth 104, per fathom. The rote of the lode is worth 104, per fathom. The rote of the lode is worth 104, per fathom. The rote of the lode is worth 104, per fathom. The rote of the lod

near approach to the lode. I would call attention to the fact that at West Kitty Mine we had similar results as we now have at this mine—a great course of mundic before we came on the rich course of fin that we now have in this adjoining mine. I consider our prospects at this mine are of more than an ordinary character.

mundic before we came on the rich course of tin that we now have in this adjoining mine. I consider our prospects at this mine are of more than an ordinary character.

TREVARREN UNITED.—W. Hooper, T. Job, Dec. 11: Since last reported the shattmen have driven south on Neil's lode at the 20, about 3 fmit ? R.; the lode has been disordered by a capel, and is now worth 31. 10s, per fathom. We hope in the course of smother 6 it. driving to get through this capel, when we have every reason to believe the end will maintain its former value, as the strata of ground is as formerly. The north end at this level has been driven about? It, by two men, and the lode is now worth 31. 10s, per fathom. We intend pushing this end with full staff of men as fast as possible, to intersect the east and west lode, which we anticipate intersecting from the present end. About 15 or 20 fathoms further at this point we expect to meet with a grand discovery.—South Level: No. 1 stope is worked out. Nos. 2, 3, 4, and 5 are still maintaining their value, as last reported. We have set another stope on tribute at 9a, 6d, in 11. standard, as usual.—North Level: No alteratin to report on since our last. At the 10 the south end is worth 21. 10s, per fathom. No. 2 stope is worth 21. and No. 5 21. 15s, per fathom. We are getting on with the erection of our winding engine as fast as possible. We shall have a parcel of the resky for market this week. All other work progressing satisfactory.

TREGEMBO.—E. Chegwin, Dec. 13: The 16 fm. level cross-cut driving south towards Tregembo lode from engine-shath, also the outting of plat and fixing of brasses, &c., at the level, are being proceeded with with all speed. The adit level driving east of Pennick's shalt has been driven since passing cross-course about 2 fms. direct east in splendid killas ground. We have commenced this morning to drive north in search of the main lode, which I think is very near about 2 fms. direct east in splendid killas ground. We have commenced this morning to drive north in searc

west from Tregembo lode, is 2 it, wide, and worth for tin about 15i. per fathom. The engineers are in a forward state with the crection of the 50 in. pumping engine.

WEST CARADON.—N. Richards, Dec. 13: A stope in the back of the 50 on Vivlan's lode will yield 1 ton of copper ore per fathom. A rise in the back of the 33 on this lode will yield 2 ½ tons of ore per fathom. Taylor's lode in the rise in the back of this level will yield 1 ½ ton of copper ore per fathom of Gilpin's lode in the adit level, together with the rise and stopes in the back of the same, will yield 5 tons of copper ore per fathom. On Monday last we commenced sinking a winze in the bottom of this level, the lode in which will yield 2½ tons of ore per fathom. We shall not be in a position to do much on this lode for a few days, having to cut ground for hanging-ta-kie, &c. The lode in the adit level in the western Gonamena is 4 ft. wide, spotted with mundic. Fair progress is being made in clearing the adit level in Dawe's Land towards Popes lode.

WEST CREBOR.—John Andrews, Dec. 11: The shaftmen have been engaged during the last two or three days in taking down the lode, which has fallen off in value since last taken down, although it maintains its size, 3 ft. wide; but this slight fulling off in the value of the lode I regard as temporary, as the last hole or two blasted into it shows a decided improvement, and in a few feet further sinking I hope and expect to see a further improvement. The lode in the 50 west is still looking very encouraging, and is worth 6i. to 7i, per fathom. This end we are now driving at 3i. 10s. per fathom, and we could stope the back for 30i. per fathom, which would leave a splendid profit.

WEST CREBOR.—John Andrews, Dec. 13: The lode in the engine-shaft, sinking below the 50, is 3 ft. wide, composed of quartz, capel, mundio, and good stones of copper ore, but at the present time not enough to value. The lode in the 50 west is 2 ft. wide, and is worth 6i. per fathom.

WEST CREBOR.—John Andrews, Dec. 13: The lode in

has in this part of the constraint of the constr

to intersect the lode 30 ims. below our present workings on the course of the lode. In the 72 driving cast the lode is worth 12, per fathom. Driving cast of cross-cut the lode is worth 19, per fathom. Driving cast of cross-cut the lode is worth 19, per fathom. No change to notice in the stopes since last report.

WEST LISBURNE.—Dec. 13: On account of the severe weather our progress has been slow in draining the mine, the wheel having been stopped on several occasions. The men have cleared the debris from the cross-cut to the new lode, and have commenced to drive the same.

WEST VOR AND LEEDS.—Sh. Harris, Dec. 13: The adit level driving east towards the great flookan is progressing satisfactorily. The lode still continues the same size, producing in throughout. It is large and well delined, and it explored in depth will sure to be a success.

WEST WHEAL PESCH.—Sh. Level.—1. Level.—1. Level.—1. Level.—1. Level.—1. Level.—1. Level.—2. Level.—2. Level.—2. Level.—2. Level.—2. Level.—2. Level.—2. Level.—3. Level.—4. Level.—3. Level.—4. Level.—4.

WHEAL GRENVILLE.-T. Hodge, Dec. 14: Goold's shaft is going down with

WHEAL GRENVILLE.—T. Hodge, Dec. 14: Goold's shaft is going down with fair speed; it is below the 190 nearly 9 lms. Other places going on regular, but I see no change as to valuation worthy of any notice since my last.

WHEAL HONY AND TRELAWNY.—Wm. Hancock, John Pearce, Hubert Lanyon, Wm. Derry, Dec. 12: Smiths' shaftmen are busily engaged in connecting the new balance-bob at the 55, and we hope to complete it and get the engine at work to-morrow. At the same time we are putting in a new stool and brass to the balance-bob at surface. Next week we intend to drop the lift below the 101, and every effort will be made quickly to reach the 120, and open up more stoping ground. The 108 has been driven during the past week 2 lms. and produced from 8 to 10 cwts. of silver-lead ore per fathom; the end is now in what is known locally as a "tight gib," and may any day open out into a large loose and profitable loods, like we had the week before, these sudden changes being characteristic of this lode throughout the working of the mines of the district. Hitherto this level has been driven by boring machinery, but as we have now commenced a rise a short distance behind the end, it will for the time be driven by hand labour until sufficiently advanced or the rise communiosing characteristic of this level has been driven by boring machinery, but as we have now commenced a rise a short distance behind the end, it will for the time be driven by hand labour until sufficiently advanced or the rise communicated. The rise is set to six men to be carried 12 ft. long, at 4f. 10s. per fathom, worth for silver-lead ore from 30f. to 40f. per fathom, and if they communicate to the breast of ground above, known as the 93 in five weeks, they are to have 5f. premium. When this is communicated we shall drive off a lovel in the breast of ground in the good lode before reported on and open out profitable stoping ground rapidly. Derry's shaft is sinking below the 55 in favourable ground and good progress is being made, although there is a little water to contend with. We intend shortly to commence a cross-cut at the 7s, so as to get under and rise to meet this shaft coming down. The level to take away the water from the crusher-wheel is driven up under the wheel-pitand communicated, and the men are now squaring down sides preparatory for the masons; the ground for the crusher-house is also taken out. Dressing operations have commenced and we hope by the early part of next year to have a good parcel of ores for sale without the aid of the crusher. WHEAL JANE.—J. Reed, J. Donald, Dec. 12: Great Flat Lode: The stope in the back of the 70, west of Tremayne shaft, is without any change to notice since last report; worth 9t, per cubic fathom. In the 70 cross-cut north, in the north part of the lode, it has a much more promising appearance, producing stones of tim. We hope shortly to be able to report of a further improvement at this point. In the the driving, east from rise at Trenayne shaft and cross-cut, the lode is about 3 ft, wide, and worth 9t, per fathom. This lode in the stope behind the driving as bout 3 ft, wide, and worth 9t, per fathom. This lode in the stope behind the driving is about 3 ft, wide, and worth 9t, per fathom. This lode in the stope behind the driving south. We are preparing to

worth 10t. per fathom. The tributers are working well and regular, carning tood wages. Surface a perations are progressing fairly.

WHEAL PRUSSIA AND CARDREW UNITED.—J. Pryor, Dec. 14: Our progress in clearing engine-shaft has been slower than anticipated, in consequence of an increase of water, owing to very heavy rains; we are, however, pushing it on as fast as possible. The men are making fair progress in clearing the 90, or bottom level, east, and hope shortly to be in a position to resume the driving of it, and also the driving of the western end, which is extended about 11 fms. west of shaft. To ventilate the 80 west, and also to lay open available ground for stoping, we have put the end men to rise just behind the end, the fode in which is worth 7t. per fathom. South of the perpendicular shaft at the 70 a cross-cut is extended about 25 fms.; we have resumed the driving of this cross-cut so as to prove the south copper lodes. The lode in the rise in the back of the 70 west is worth about 15t, per fathom. The lode in the 60 west is worth about 10t, per fathom. The lode in the 60 west is worth 7t, per fathom. The lode in the 60 cast is level are worth on an average 10t, per fathom. The lode in the 40 west is worth 7t, per fathom. We have again resumed the driving of the cross-cut for the tin lode, north of the new shaft at the 30 west. The cross-cut north of the engine-shaft, at the 30, its also being extended; we have not yet seen anything calling for notice since the meeting.—Copper Lode: We have commenced the driving east and west of the present is not looking quite so well, now worth about 10t, per fathom. The satern end is extended about 3 fms.; the lode at present is not looking quite so well, now worth about 10t, per fathom. The extern end is driven about 2 fms.; the lode has a very promising appearance, and is worth fully 10t, per fathom. About 70 fms. behind the extern end we have cut into the same lode, and are driving west on it; it is por a present, but presents a very kinding appearance, with o

TO THE METAL TRADE.

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OLD METALS of EVERY DESCRIPTION PURCHASED for CASH.

The Mining Market: Brices of Metals, Ores, &c.

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Canada; IX 6s. per box more than IC quoted above, and add 6s. for each X. To ne-plates 2s. per box below tin-plates of similar brands.

REMARKS.—In a few branches of the trade there have continued some irregularities in prices, but the general state of the trade is without material alteration. As is usual at this season of the year some irregularities in prices, but the general state of the trade is without material alteration. As is usual at this season of the year the state of the markets almost all round is dull, there is little or no animation in dealing, operations are for the most part very limited in number as well as for quantity, and there seems little or no chance of any substantial recovery until the turn of the year. Hopes are, therefore, cherished not so much as regards what amount of business may be transacted during the next two or three weeks, but the expectation is devoted towards 1883, in the hope that it may bring with it new enterprise and increased profits, and certainly there is some ground for the entertainment of so sanguine a view, for prices are now comparatively low, and ought, therefore, to stimulate the demand, particularly as of late the business transacted has not been of an average character, and thus giving room for the idea that the trade which should have been done in the past has yet to be added to that which will be carried through in the future. Sellers' extremities are buyers' opportunities, and while we do not pretend to say that sellers are now so badly off for orders as to preas sales at says price, for that would be giving a very erroneous state of the trade, since there are still many sellers fairly well occupied with old contracts; yet business at the present time is not brisk, and prices are easy, consequently it appears an advantageous opportunity for buyers to secure their wants, and they may find the tester to anticipate in a measure their wants ere any recovery takes place in in prices rather than delay purchasing, as it may fully be expected that sellers will not continue to accept such unprofitable rates longer than they are absolutely obliged to.

In some instances already the speculative demand has assumed a better tone, thus indicating that operators consider prices now to be on a safer level, and although there is not much in the general condition of the trade to encourage the specul

business, yet for the raw material some fluctuations may occur, caused by the action of speculators.

Coppell.—For the first three days of the week there was a much better tone in this market, and while prices for manufactured remained steady quotations for Chili bars daily improved, an advance being effected of about 1l. per ton. But this improvement was specifily checked yesterday when the Indian Exchange was quoted down 3l. Selies pressed sales to some considerable extent, but buyers were very shy to make purchases, and refused to give their necessary support to the market. Prices for both the raw and manufactured material were quoted lower, but these quotations were quite nominal, since buyers could not be found thereat. The future of this market appears to be attended with a good deal of uncertainty, and a very gloomy view is entertained with these repeated falls in the Indian Exchange. The state of the market is far from encouraging, and it may be a matter of some surprise that if a comparison be drawn between the state of the trade now and the corresponding period of last year it will be found to differ very considerably. Then, notwithstanding that prices were higher than those now being quoted, and the visible stock heavier, yet the tone was cheerful, and the tendency upwards. Now, on the contrary, we have a lighter visible stock and greatly reduced prices, and yet the domand is not stimulated thereby; but, on the other hand, business is most difficult to effect, holders preferring to make sales than to increase their stocks, and shippers being slow to secure their requirements. The trade is now unsettled by the silver question, and while this may continue to disorganise the market for a time some very irregular movements may be expected, and possibly heavy concessions have to be made in order to distinue the demand, are not unwilling to cases the amount of business doing is merely of an a hand-to-mouth character. In some cases manufacturers, in order to stimulate the demand, are not unwilling to make s

great measure, if not chiefly, to the severe gales which have lately interfered so much with the shipping business in Scotland. There have not been many transactions carried through in makers' iron, but prices almost all round are well maintained.

Not very many fluctuations have taken place upon the Glasgow warrant market, and the amount of business done has been rather limited. The opening price on Monday was 98. 19541, and transactions were carried through down to 48s. 5431, and to The search of the work of 48s. 64. On Wednesday the market was steady at 48s. 10d. buyers, and yesterday the principal business was carried through between 48s. 1054. And 48s. 11d., the closing figure to-day being 49s. 3d. The shipments last week were not so good, amounting to only 7145 tons, against 9191 tons for the same week of last year, and 635,672 tons for the same week of last year, and 635,672 tons for the similar period of 1830. The number of furnaces is blast remain at 114, while the public stock has been further reduced to 610,849 tons, against 611,470 tons last week, or a decrease of 621 tons. The imports of Middlesborough pig-iron into Grangemouth last week were 2100 tons, against 637 tons, for the corresponding period of last year, being a reduction of 4257 tons, and which makes a total decrease for the whole of this year conpared with last of 69,822 tons. The advices from Middlesborough are not very promising, as they report a quiet market without much chance of improvement. Makers for the most part are said to keep up their rates at 43s 61, for No. 3, other makers quoting less, and some asking 44s. Second-hand lots have been offering at 42s. 9d., and consequently they have had the principal business. In the absence of business warrants are nominally quoted at 42s. 6d.

In stocks there is scarcely any variation, the public stock only showing a reduction for the week of 71 tons, and now amounts to 100,734 tons, while the shipments last week were 12,500 tons. There is not much doing in manufactured, and prices show bu

and transactions have not been quite so numerous, and prices have continued to show a retrogressive tendency. Some efforts are being made to uphold the market, but the general disposition is to press made to uphold the market, but the general disposition is to press sales, which naturally has a depressing influence upon prices. The chief cause of the adverse movement is probably the numerous failures which have recently taken place in the tin-plate trade, which may perhaps have some effect upon future deliveries. These difficulties are not likely to leave many dealers in this metal in any great losses. Only those who have been doing tusiness with such houses have failed, but the failures produces very unsatisfactory influence for the time being. These difficulties in the trade give the idea that the price recently realised for tin may have been too high, and above what consumers could afford to pay. Certainlyprices have ruled high compared to what have been current during the past few years, and on the other hand prices for tin plates have been, for the most part, recy moderate. This fact may induce some holders to force sales, since not unlikely from that account prices might recede; but then, on the contrary, there is such a large speculative interest prevalent in the maintenance of prices, that holders will do their utmost to prevent the market from being permanently reduced. Just now prices are wavering, and for reasons already stated there seems as much chance of the market going one way as the other during the immediate future.

SPELTER.—The market is quiet and prices a little easier, but not much offering for sale. On the other hand, consumers have not bought much for the new year. We quote ordinaries at 6l. 10s. to 16l. 15s., and specials at 16l. 15s. to 17l.

Lead is lower, and Spanish has been sold at 13l. 5s., and is still obtainable at that price. English is quoted at 13l. 12s. 6d. to 13l. 17s. 6d.

Steel.—The variations in this market are of trifling character, rails estill heing offered for sale at a very cheen rate.

13l. 17s. 6d.

STEEL.—The variations in this market are of trifling character, rails still being offered for sale at a very cheap rate.

TIN-PLATES.—The demand is dull, but prices steady.

QUICKSILVER.—Owing to the refusal by the importers of all offers below their quotation of 5l. 16s. 9d., the second-hand market has hardened, and a considerable business has passed at better rates.

The MINING SHARE MARKET continues in a very depressed condition. It generally happens at the end of a year that a few speculators close their open accounts, and thus force shares on the market for sale when the general public are not buying, and dealars will only purchase or take in stock at their own prices; and when this happens in a more than usually dull market such as there is just now, prices rapidly give way, and quotations are not to be depended upon. There is generally, however, a reaction from this state of things, and between this time and the beginning of the new year, when more activity may prevail, as it invariably has done in former years, many bargains will have been picked up, especially should metals improve, as there is good reason for expecting, when the difficulties in the tin-plate trade have been got over.

Tix has been weak, influenced probably by the failures in the tin-

metals improve, as there is good reason for expecting, when the difficulties in the tin-plate trade have been got over.

TIN has been weak, influenced probably by the failures in the tin-plate trade, which are said to have reached 1,000,000½. The standards for ore in Cornwall have been again reduced to 2½ per ton. Blue Hills, 15s. to 20s.; Carn Brea, 8 to 8½; Cook's Kitchen, 32 to 33; Dolcoath, 65 to 67; Drakewalls, ½ to ½; East Pool, 49½ to 50½; East Blue Hills, 8s. to 10s. Killifreth, 31 o 3½; at the meeting the accounts presented showed a profit of 400½ on four months working, and a dividend of 1s. 6d. (450½) was declared. Kit Hill, ½ to ½; Theoroft, 6 to 6½; West Basset, 6 to 6½; West Kitty, 2 to 2½; South Condurrow, 9½ to 10; South Frances, 8 to 8½; Thioroft, 6 to 6½; West Basset, 6 to 6½; West Kitty, 12½ to 13; West Phœnix, 8s. to 10s.; Wheal Agar, 16 to 17; Wheal Basset, 8 to 8½; Wheal Grenville, 8 to 8½; Wheal Jane, ½ to 1; Wheal Kitty (8t. Agnes), ½ to 2; Wheal Peevor, 4 to 4½; Wheal Sisters, 1 to 1½; Wheal Uny, 4½ to 5. South Crofty, 10 to 11; at the meeting a call of 7s. 6d. per share was made. The accounts for three months showed a loss of 865½, and a balance against the mine of 3586½. The call made was only 766½. The report was considered more favourable. Goodevere, 1 to 14; West Polbreen, ½ to ½; Trevaunace, 2½ to 2½; West Peevor, 6½ to 7; Tresavean, 17s. to 19s.; Mounts Bay, 12s. 6d. to 15s. Bay, 12s. 6d. to 15s.

COPPER has been slightly firmer, but scarcely any business trans-

more or less marked charact r in the regular trade, yet it does not follow that this will be so in speculative unless, and, therefore, while in manufactured no particular change can be looked for, since prices are chiefly governed by actual business, yet for the raw material some fluctuations may occur, caused by the action of speculators.

COPPER.—For the first three days of the week there was a much better tone in this market, and while prices for manufactured remained steady quotations for Chili bars daily improved, an advance being effected of about 1l. per ton. But this improvement was speedily checked yesterday when the Indian Exchange was quoted down ½6. Sellers pressed sales to some considerable actent, but buyers were very shy to make purchases, and refused to give their necessary support to the market. Prices for both the raw and manufactured marterial were quoted lown.

New West Caradon, 9s. to 11s.; New Caradon, 5s. to 6s.: Prince

3 tons of ore per fathom, and that it the best looking end that he has seen in the mine for a long time, and he evidently expects a large bunch of ore in this direction.

New West Caradon, 9s. to 11s.; New Caradon, 5s. to 6s.; Princo of Wales, 10s. to 15s.; South Caradon, 30 to 35; South Devon United, \$ to 4; West Caradon, 14 to 14; West Crebor, 9s. to 11s.; West Seton, 18 to 20; West Tolgus, 16 to 18. Devon Friendship, 6s. 6d. to 7s. 6d.; the 42 end is worth 12l. per fathom, with some good copper ore. Russeil United, \$ to \$; the lode in the 97, west of cross-cut, is worth 7l. per fathom, and likely to improve. The east end is 4 ft. wide, spotted with ore and mundic, and very kindly. Sortridge, 4s. to 6s.; Langford, 9s. to 11s.; Mellanear, 4 to 4½; West Devon Consols, \$ to \$ to \$ 1 to \$ 1

lock, 5½ to 6½. La Plata, 1½ to 1½; the smelting statement to Dec. 9 shows that La Plata, 1½ to 1½; the smelting statement to Dec. 9 shows that 984 tons of ore were smelted, yielding 15,000 ozs. silver and 127 tons of silver-lead bars. The value of the consignments was 5410%. Linares, 3 to 4; Mason and Barry to bearer, 15 to 15½, and much doing. Mysore Gold, ½ to ½; New Quebrada, 4½ to 4½; Nouveau Monde, ½ to ½; Pontgibaud, 11 to 13, ex div; Rhodes Keef, ½ to ½; Richmond, 7½ to 7½; Rio Tinto shares to bearer, 22½ to 23½, and much doing. Ruby and Dunderberg; ½ to 1½; Sierra Buttes, 1½ to 1½; Plumas Eureka, 1½ to 1½; South East Wynaad, ½ to 1; St. John del Rey, 150 to 170; Tambracherry, ½ to ½; Enriss Copper and Sulphur, 36½ to 37½; United Mexicans, 2½ to 2½.

Birdseye Creek, 1½ to 1½; Organos, 2½ to 2½; Orita, 1½ to 1½; Panulcillo, 6½ to 6½; Bratsberg, 1½ to 2½; particulars of the meeting will be found elsewhere. The accounts showed a profit of 3694%. 19s. 5d. for 12 months, estimating the value of two cargoes not yet sold, as we stated last week, and when these are realised the directors will declare a dividend of 5 per cent. Yuba, par to ½ prem.; Michipicoten, ½ to 1; Placrville, ½ to 1½; Colombian Gold, 1 to 1½; Victoria Gold, 1 to 1½.

The Market for Mine Shares on the Stock Exchaves in

The Market for Mine Shares on the Stock Exchange has again been very inanimate, and prices are in most instances nominal. With regard to home mines this is no doubt due to the continued depression in tin, copper, and lead, and the constantly declining prices. Several dividends have been declared during the week, and are noticed in the usual place, and one of the young foreign mines—the Bratsberg—has realised a profit of 36951. upon its first year's operations; the directors will, therefore, be in a position to distribute a dividend of 5 per cent. without weakening their financial position. It has often been complained that the mineral resources of Norway have dividend of 5 per cent. without weakening their financial position. It has often been complained that the mineral resources of Norway have been neglected, and it is well known that the profit derivable from a foreign mine frequently depends as much on the integricy and skill of the directors at home as upon the character of the mine itself. The Bratsberg success will give confidence to the directors to take advantage of other Norwegian properties which are being offered in the London market, and they will be unlikely to have any great difficulty in obtaining the support of the public. Several new enter prises are announced this week, and no doubt is entertained that the capital asked for will speedily be forthcoming.

Our usual telegram from Cornwall this evening says that during the past week the Cornish mineshare market has been extremely dullowing to the continued depressed state of the tim market, and except in a few shares quotations are nominal. The Cornish smelters have

few shares quotations are nominal. The Cornish smelters have further reduced the Tin Standards by 2l. per ton, prices now being—Common, 88s.; superior common, 90s.; refined, 92s. per owt. At Killifreth a profit of about 400l, and a credit balance of 494l, was Rilliteth a pront of about 400s, and a credit balance of 494s, was reported, 1s. 6d. dividend per share was declared, and attention was called to the heavy cost; but it was explained that there had been a considerable outlay for a new calciner, &c. At Wheal Owles meeting to day the accounts for 16 weeks showed total costs amounting The present debit balance is \$4520\(\), as against 510\(\). As a the last meeting. Carn Brea, $7\frac{1}{2}$ to \$; Cook's Kitchen, 33 to 31; Dolcoath, $65\frac{1}{2}$ to 66; East Pool, $50\frac{1}{2}$ to $50\frac{1}{2}$; Tincroft, 6 to $6\frac{1}{4}$; and Wheal Aggr. $16\frac{1}{4}$ to 17.

65½ to 66; East Pool, 50½ to 50½; Tincroft, 6 to 6½; and Wheal Agar, 16½ to 17.

In Indian Gold Mine Shares the business done during the week has been unusually small, and prices have slightly declined; but this is attributable almost entirely to the general indisposition to operate until the result of the practical working, which it is understood has now really been commenced. So far as can be judged from the experience obtained to date, the reefs appear to be commercially worthless, the favourable yield being created by the adoption of improbable estimates as to what will be obtained from the pyrites and tailings.

and tailings.

In Electric Light Companies shares not only have the dealings been fewer; but there has been again a serious decline in the quotations; Brush Parents are now 7½ to 8 for the 4L paid, and on which a call is pending, and 1½ to 17 for the fully paid shares; whilst Hammond's are 3¾ to 4½, there have thus been falls of 10 to 20 nor cart. Novertheless thus are still far above their value, and whilst Hammond's are 3½ to 4½, there have thus been falls of 10 to 20 per cent. Nevertheless, they are still far above their value, and it cannot be doubted that the manner in which these shares have been manipulated by market operators has not only caused a superiority to be assumed for the Brush system, which it no longer possesses, but has also had a very prejudicial effect upon the commercial prospects of other lamps which embody more advanced ingneuity combined with greater economy. The address of Mr. J. Banting Rogers (of the J. B. Rogers Electric Light and Power Company) at the Town Hall, Reading, on Artificial Light and its means of production from the pine log to electricity, has been printed in pamphlet form, and records perhaps the greatest advance in electric lighting invention; it is well worth reading. The Pilsen-Joel and Gatehouse Light Company have also issued a descriptive pamphlet, which contains much information with regard to the construction of these lamps. If investors would take the trouble to ascertain the these lamps. If investors would take the trouble to ascertain the character of the severel lights before the public, and the purposes to which each is applicable electric light securities would become hese lamps.

tharacter of the severel lights better
to which each is applicable electric light securities would
nore popular and more remunerative to capitalists.

Devon Great Consols, 4½ to 5½; the lode in the 137 east is 3½ ft.

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Devon

wide, and improving. In the 190 west it is 4½ ft. wide, wo of ore and 2 tons of mundic per fathom. In the 100 Watson's shaft, it is from 4 to 5 ft. wide, and looking well. acted in shares except at low prices; quotations, therefore, are mostly nominal. Bedford United, 1\frac{3}{2} to 2; Devon Great Consols, Great United, \frac{3}{2} to \frac{3}{2}; the lode in the 120, east of Willesford's 4\frac{3}{2} to \frac{3}{2}; Devon Great United, \frac{3}{2} to \frac{3}{2}; East Caradon, 1\frac{3}{2} to 1\frac{3}{2}; Gun- is 2 ft. wide, yielding small quantities of copper and mundic. of 930 tons of copper ore will take place on Thursday next. Devon Great United, § to §; the lode in the 120, east of Willesford's shaft, other po Drake being madriven d Kit H of tin ar South ore, with

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thought West there had cidedly Wheat last week lode is cations The lod ness, ar particu copper next.

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dergroup himsel: looked is in go other points of operation are the same as in last report. The rock-

other points of operation are the state as it last teport. The look-fill it is expected will be at work in a few days.

Drakewalls, \(\frac{1}{2} \) to \(\frac{1}{2} \); the managers report that good progress is being made with the rock-drills, the deep adit level having been driven during the past four weeks about 15 fathoms. It is expected that about 20 tons of tin will be ready for market by the end of

next week.

Kit Hill, \$\frac{3}{2}\$ to \$\frac{3}{2}\$; the lode in Griffin's winze in the bottom of the \$\frac{2}{2}\$ fm. level west is from \$2\$ to \$3\$ ft. wide, showing some good stones of tin and a little copper ore, and in the \$62\$ east the lode is of a very promising character. Fair progress is being made in driving the main tunnel, the ground of which has become harder.

South Devon United, \$\frac{3}{2}\$ to \$1\$; in the \$90\$ and \$10\$ fm. levels, east of \$Brook's shaft, the lodes are about \$4\$ ft. wide, yielding good stones of ore, with every indication of a further improvement. Good progress has been made at Martin's shaft, and in cutting the lode at the \$155\$ at Pickston's shaft, which has every appearance of being a large one. West Kitty, \$12\frac{1}{2}\$ to \$13\$; these shares are said to have been firm, and

West Kitty, 12½ to 13; these shares are said to have been firm, and it is reported that tin has been cut in the deepest part of the mine—at the 80 (formerly called the 90)—the present value is 10*l*. per fm., and improving. This is considered important for Trevaunance, without mentioning the discovery at Wheal Coates, which lode it is the other of the same of the

when the set in the se

cidedly upward.

Wheal Coates, \(\frac{3}{2}\) to \(\frac{5}{3}\); it is stated that the discovery reported in last week's Journal has assumed increased importance, and that the lode is now worth 20\(\ell\). per fathom. The shares have been in demand East Caradon, \(\frac{1}{4}\) to \(\frac{1}{4}\); it is stated that more branches or veins continue to be met with in the 130 cross-cut south, all which indications are favourable for a rich lode being met with in this point. The lode in the 90 end, and rise in back of level, hold in productiveness, and are looking well for further improvement. There is no particular change in any of the other bargains. The sampling of copper ore last week computed at 53 tons, is to be sold on Thursday next.

The Nenthead and Tynedale Lead and Zinc Company, with a capital of 120,000*l*., in shares of 1*l*. each, has been formed for the purpose of acquiring all the freehold and leasehold property, mines of lead ore and zinc ore, crushing, dressing, and other machinery, and smelting mills, situated in the valleys of the Tyne and Nent, and the state of the company of the transfer of the company of the compa

purpose of acquiring all the freehold and leasehold property, mines of lead ore and zinc ore, crushing, dressing, and other machinery, and smelting mills, situated in the valleys of the Tyne and Nent, and hitherto owned and worked by the London Lead Company and by the Tindale Spelter Company. The prospectus (which will be found in another column) states the mines and mining property of the company are of the most extensive character, covering an area of nearly 13 square miles, and comprising some of the richest mining ground ever worked in the United Kingdom. Of this three square miles are freehold, and the remainder leasehold. There are 51 important veins and branches, besides others of less value. From 21 of these ores of lead and ainc are being raised; in six veins work of exploration and development is carriedon. There is thus the certainty of a steady yield of ore. From the work already done it is seen that there will be a further increase during the current year. There are 163 men raising ore, and 26 employed in exploration and development. The reserves, as set forth in the report of Mr. Bewick, are computed at 12,000 to 15,000 tons of lead ore, and 40,000 tons of sinc ore. The ore is cheaply extracted, for there are 43 miles of levels (of which 35 miles are laid with iron rails), and these effectively drain the mines, and by them the mineral is brought to the day and direct to the various dressing-floors. There is thus no cost for pumping nor for lifting the ore from shafts. This extensive system of levels, besides securing the cheap extraction of the ore gives easy access to a great extent of valuable mining ground in which new developments and exploring works are being advantageously carried forward.

West Wheal Rose, with a capital of 50,0000. In shares of 11. each, has been formed to develope a valuable mining property at Newlyn East, in Cornwall, and within the limits of which the principal lodes of the Shepherds Mines form their junction with each other, and with the east and west lodes of East Whe

of 75,000f., as well as the balance of 29,000f. brought forward hold law gardenesses accounts, remain intact.

Ruby and Danderberg, 5 to 1 ; the weekly report advises fair progress with the rise from the 300 ft. level in the Dunderberg Mine, which had then been driven 164 ft. in all. Several tributers

Mine, which had then been driven 164 ft. in all. Several tributers were working in other parts of the mine, and 11 tons of tribute ore had been shipped. The work at the Home Ticket was going on satisfactorily; the outturn of ore was increasing; the shipments amounted to only 10 tons; but this was owing to an accident. There were 30 ton besides at the mine waiting shipment.

Flagstaff District, 5s. to 6s.; a telegram received at the office today from Prof. Vincent says; "Excellent progress. Shaft to seventh about Christmas; now 60 ft. below sixth. Prospects good. Getting some rich ore." In the notice convening the meeting for Wednesday next it is stated that one portion of the business is "to consider the best means of raising funds to continue the works, and complete the sinking of next it is stated that one portion of the business is "to consider the best means of raising funds to continue the works, and complete the sinking of the main shaft to the 7th level, where, from Prof. Vincent's report, there is reason to expect that the rich vein which runs directly towards, and within 61 ft. of, the boundary of this company's property, and which is being worked in the adjoining mine at a large profit, will be struck, and large returns made, and to pass such resolutions with respect thereto as the meeting may determine."

California Gold, (of Colorado), I 1-16 to $1\frac{1}{8}$; this week's telegram from the mine states that the "mill run was 360 tons; net value, 7404.; ore sales, 1404."

Henriett, \$\frac{3}{8}\$ to \$\frac{3}{8}\$ prem.; the advices from the manager state that during the week ended Dec. 14 the cash received from 378 tons of low grade ore and iron was 6404.

no buyers; he also complains that the advertiser for the shares gave no reply to an offer to sell at the lower price—10£—quoted in the Journal. It should be understood by these forwarding quotations that they should be prepared to buy, or indicate a buyer, at the lower quotation. If no buyer can be found on the quotation 4 to 5—and the complaint to that effact is not alone—it is unjustifiable to quote 10 to 10½; the Share List is therefore.

In Lead Mine Shares there is scarcely any business doing, and as it is almost impossible to sell the metal, even at the decline that has recently taken place, it is not surprising that very few are inclined to buy at any price, and that quotations are merely nominal. Tankerville Consols are quoted \(\frac{1}{2} \) to \(\frac{2}{3} \); in Tankerville Mine the various points of operation are equal to the values given in last week's report. In Pennerley Mine the Warm Water lode is looking well, the \(\frac{8}{3} \) cross-cut being \(6 \) ft. wide, and worth about \(4 \) tons per fathom. The shaft in Potter's Pit is \(3 \) fms. below the 91 fm. level. Good profess has been read in the head that what he was the water week's rest.

Roman Gravels, 9 to 9½; a large shareholder, who has been underground during the week and inspected the mine, has expressed himself well pleased with its appearance, the mine not having looked better for a long time. The pumping and winding machinery is in good working condition, but the frost and snow have interfered a good deal with the dressing operations.

Leadhills, 3 to 3\frac{1}{2}: Wilson's shaft, 16 fms. below the 41, is in a lode worth 6 tons per fathom, and the mines geenerally continue to look well. It would appear, however, that the great severity of the weather during the last 14 days has considerably retarded dressing operations.

operations.

In the Chancery Division of the Supreme Court of Judicature, on Thursday, before Mr. Justice Fry, an application was made by the Rev. John Kitcat for an injunction to restrain Mr. Henry Gould Sharp, a mine share dealer, from publishing a statement of claim, with comments, in an action of Kitcat v. Sharp. The two gentlemen had a dispute about some shares, and Mr. Sharp sent Mr. Kitcat a statement of claim in the action about these shares, with marginal notes in pencil, imputing falsehood to the reverend gentleman. Mr. Sharp also threatened to send the statement of claim, with comments, to the clergy.—The Judge said that such conduct was a contempt of Court, and restrained the defendant from publishing the statement of claim or otherwise prejudicing the fair trial of the action.

publishing the statement of claim or otherwise prejudicing the fair trial of the action.

The Newport Abercarn Black Vein Steam Coal Company directors on Wednesday declared an interim dividend at the rate of 6 per cent. per annum on the ordinary and preference shares for the half-year enping Sept. 30.

The Instalment Coupon No. 1 for 10s, upon each of the instalment certificates of the Alabama Coal, fron, Land, and Colonisation Company will be payable at the company's offices, Lothbury, on and after Dec. 27.

Messrs. J. S. Morgan and Co. notify that the coupons due Jan. 6 on the bonds of the Chillian Government 7 per cent Loan, 1887 and the 5 per cent. 1 1870; the Chicago and Alton Railroad Company's 6 per cent. Consolidated Mortgago Bonds, and the Philadelphia and Eric Railroad Company's 6 per cent. General Mortgago Bonds (negociated through them), will each be paid at their counting-house on and after that date.

their counting-house on and after that date.

GAS SHARES.—The principal business in these shares, according to this evening's report of Messrs. W. L. Webb and Co., of the Stock Exchange, and Finch-lane, has been:—Commercial, 203½ to 254; Gas Light and Coke, A (ordinary), 181½ to 182½; ditto, B, 10 per cent. maximum, \$i\$; ditto, C, 10 per cent. preference, 222; ditto, 7 per cent. preference, 122; ditto, 7 per cent. preference, 124; long-rial Continental, 194½ to 197; London, 209; Monte Video, 15½; Rio de Janeiro 24½ to 24½; South Metropolitan, B, 185½. Gas stocks firm, especially Imperial Continental Gas.

INSURANCE SHARES have, according to this evening's report of Messrs. W. L. Webb and Co., of the Stock Exchange and Finch-lane, been dealt in as follows:—Alliance, British and Foreign, 37½; ditto, Marine (Limited), 1½ to 21½; Commercial Union, 19½ to 20½; Eagle, 6½; Employers' Liability Assurance Corporation, 2½; Fire Insurance Association (Limited), 2½; Guardian, 65½; Imperial Fire, 140; Indemnity Marine, 16½ to 16½; London, 60½ to 60½; Law Life, 117; North British and Mercantile, 29 to 29½; Ocean Marine, 7½; Rock Life, 8½ Royal Exchange, 8½; Sun Fire, 457. Insurances dull, particularly fire companies, upon the Wood-street fire. Commercial Union, and North British and Mercantile being the most speculative, had the greatest fall.

TRAMWAYS.—The closing prices of this evening, as quoted by Mr. W. Abbott, of Tokenhouse-yard, are given in tabular form in the last page of the Journal.

RAILWAY And (Lenen 4 Markers)

the Journal.

RAILWAY AND GENERAL MARKETS.—Referring to the course of business done to-day during official hours (11 to 3) Mr. Ferdinand R. Kirk, Birchin-lane, writes:—Opening: There is an active demand for American railways shares are depressed, and only 29½. Unified are ½ better. There is only a quiet market for mining shares, this being the day following "pay day," and from transfers having to go into the country it is always a more busy day than the actual setting day itself. Quotations are fairly maintained; the event of the last few days has been the marked advance in Old Shepherds. La Plata, 1½ to 1½; Roman Gravels, 9 to 9½; Colombian Hydraulic, 3½ to ½; Almada, 103. to 123. 6d.; Organos, 2 to 2½; Wheal Crebor, 2½ to 3; West Devon, 3½ to 3; Hondad, 103. to 123. 6d.; Organos, 2 to 2½; wheal Crebor, 2½ to 3; West Devon, 3½ to 3; Devon Consols, 4 to 4½.—Cheming: Great Eastern have fallen to 76½, 77. Mexican Railways are only 138½ to 139; and Hudson's Bay 28½ to 28½; Ruby, 3½ to 1½; La Plata, 1½, 65 1½%; Richmond, 7½ to 73%. Brush Lights, 7¼ to 8; Hammond's, 4 to 4½.

PHŒNIX UNITED.—The meeting is called for Thursday next, at Webb's Hotel, Liskeard, when the usual dividend is expected.

Webb's Hotel, Liskeard, when the usual dividend is expected.

OLD SHEPHERDS MINES.—This week's news from the mine is regarded as most important. It is that the lode which was recently discovered at the 10, and was at that point 10\(lleft). Der fathom, is worth over 20\(lleft\lambda\) at the 26, and over 30\(lleft). At the 34. It is also found at the 44 and is expected to have improved in a corresponding ratio with the former level. We understand the agents are now thoroughly convinced it stands whole to the bottom of the mine, and is about five-eights of a mile in length. According to the printed reports issued with the original prospectus, the lode in many places where it has been worked for silver-lead about 12 tons to the fathom, and was exceptionally rich in silver. exceptionally rich in silver.

TRESAVEAN.—Shareholders who attend the meeting of this company on Wednesday next will, it is said, be astonished at the enormous amount of work done at the mine. A large pile of ore ready for market, 36 heads of stamps working continuously, tinstuff being trammed to the stamps in large quanties, and the dressing-floors a scene of activity. The various lodes are increasing in value as development proceeds.

lopment proceeds.

Mounts Bay Consols—It is announced that three parcels of copper have just been sold from Trebarvah and Sydney Cove, and that it realised a higher average than the others offered. There were 21 parcels sold. This is good news for the shareholders. It is understood that the 48 heads of steam-stamps at Sydney Cove were set in motion a day or two ago, and that shareholders may very soon expect to see regular and large sales of tin.

The Mulberry Tinworks These works present a remarkable instance of skilful and judicious enterprise. Since their acquisition by the present company a vigorous and energetic policy has been adopted. The four water-wheels, driving 108 heads of stamps, have been thoroughly overhauled and renovated, an engine with 76 stamps has been set to work, and a second engine, to drive 150 stamps, is in course of crection. It will thus be seen that no less than 334 heads of stamps will shortly be in operation, working day and night. Moreover, the whole of the buildings, tramways, machinery, and plant have been either renewed or put into a complete state of repair. The natural advantages of this mine are very great. Being situated in the side of a hill, no pumping machinery is required, and no mining, in the ordinary sense of that term, such as sinking shafts, driving levels, &c. It is, therefore, not surprising to hear that directors have already declared a dividend at the rate of 100 recents are annum, and that they look forward with more to hear that directors have already declared a dividend at the rate of 10 per cent. per annum, and that they look forward with more than ordinary interest to the future operations of the company.

WEST GODOLPHIN.—The various points of operation on the caunte and Bellingham's lodes are progressing satisfactorily. Cock's shaft for developing the new lode is now down 7 fms.; a cross-cut has been commenced south to intersect the lode, and from the appearance of the country rock and its highly mineralised character it is anticipated a good lode will be cut.

DEVON FRIENDSHIP .- The 42 west is worth 121. per fathom, with very good copper ore. The stopes are turning out well.

Henriett, \$\frac{3}{6}\$ to \$\frac{3}{6}\$ prem., the cash received from the during the week ended Dec. 14 the cash received from the during the week ended Dec. 14 the cash received from the weekly report it appears that a massive ore body has been entered in the No. 4 level of the Donaldson Mine, and is valued at 9 tons per cubic fathom. The mine throughout is also reported to present a satisfactory appearance.

Information of the cutting Mine. This following on the recent important discoveries.

Silver is considered interesting, as proving the run of the north and south lodes for about three quarters of a mile. Full particulars are anxiously looked for, as the farthest point of work at Lanteglos is only a few fathoms from the great lode which has been cut rich at Wheal Silver.

West Wheal Rose.—The parish of Newlyn, which has long the court of Chancery, is now again.

Wheal Silver.

West Wheal Rose.—The parish of Newlyn, which has long languished under the ban of the Coart of Chancery, is now again well to the fore as a representative of one of the two great Cornish industries—mining. East Wheal Rose has been resucitated with 100,000% capital, and Old Shepherds with 80,000%. Less pretentious in amount; but, it is remarked, at least equally likely to attain a grand success, West Wheal Rose, with a capital of 50,000%, cones before the public. The promoters commend the roports on this mine to the careful perusal of the readers of the Journal; for within a radius of 2½ miles from West Wheal Rose the various mines, the most promineut of which are the "Shepherds, the Roses, Deer Park, the Cargolls, and the Chivertons have returned upwardsof 12,000,000%. (twelve millions) worth of silver-lead ore, and paid immense profits. Many of these mines were probably worked under extraordinary difficulties (chiefly by manual labour, and with primitive and unwieldly machinery), which will not occur with modern appliances. Of this remarkable group, West Wheal Rose forms the centre, and being in comparatively virgin ground of a most favourable character for mining operations, with the greater part of the water drained off by deeper surrounding mines on the same lodes must obtain an equally substantial realisation of wealth to that which the former workers realised at the various points at which these lodes have been worked, and which with modern appliances, on he worked and which with modern appliances on he worked on the proper in the proper is not the centre, and worked, and which with modern appliances on he worked and which with modern appliances are he worked on the proper is the proper is not the proper appliance of the centre of the water of the proper of workers realised at the various points at which these lodes have been worked, and which, with modern appliances, can be worked more

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THE MINING JOURNAL.

Bailway and Commercial Gazette.

LONDON, DECEMBER 16, 1882.

MINING EXPLOSIONS, AND SUDDEN OUTBURSTS OF GAS.

Since the explosion at Clay Cross the question as to the probable cause of sudden outbursts of gas in mines has been noticed by several mining engineers. Mr. J. Wilson, the late chief of the well-known Oaks Colliery, whose experience in connection with explosions and outbursts of gas is probably second to none, has favoured us with some notes on the subject, which bring out the condition of gases in mines in a clearer light and more intelligible manner than we have previously had placed before us. It is well known that there are some seams of coal that give off very little gas, either suddenly or in a regular manner; but in those that do well known that there are some seams of coal that give off very little gas, either suddenly or in a regular manner; but in those that do make a considerable quantity outbursts do take place which cannot be anticipated, and these may also occur in mines that as a rule have been tolerably free from fire-damp. Such outbursts, Mr. WILSON considers, may result from the displacing action of large quantities of water entering extensive open places where the mineral has been worked, and in which there are considerable quantities of gas, the pressure of the column of water being equal on all sides. Taking the depth of such a mine at 350 yards, the pressure would be from 300 to 400 lbs. per square inch. At the same time it frequently happens that the gas exudes in the greatest profusion from every pore in the coal as well as from the roof and floor of the mine, and to such an extent has this been the case at some places in the West Riding that the gas has issued out in such quantities as to fill the roadways for hundreds of yards, and for hours has set all possible ventilation at defiance. When the coal is worked out, and the timber which has supported the strata is removed, the roof must rest on something under it, the same as a bridge resting on pillars, and when a goaf is left standing the effects of this pressure on the gas and the coal, if of the latter there is a thin seam a short distance below the floor. The grand will upheave or "Green" as it is teasured in the grand will upheave or "Green" as it is teasured in the grand will upheave or "Green" as it is teasured in the grand will upheave or "Green" as it is teasured in the grand will upheave or "Green" as it is teasured in the grand will upheave or "Green" as it is teasured in the grand will upheave or "Green" as it is teasured in the grand will upheave or "Green" as it is teasured in the grand will upheave or "Green" as it is teasured in the grand will upheave or "Green" as it is teasured in the grand will upheave or "Green" as it is teasured to the grand will ventilation at defiance. When the coal is worked out, and the timber which has supported the strata is removed, the roof must rost on something under it, the same as a bridge resting on pillars, and when a goaf is left standing the effects of this pressure on the gas and the coal, if of the latter there is a thin seam a short distance below the floor, the ground will upheave or "creep," as it is termed, and the pent-up gas being set in motion by the weight coming upon the solid coal and the goaves, finds the point of least resistance, and discharges its volumes at high-pressure speed. This pressure exerted by the superincumbent strata is something tremendous when reduced to figures. Taking a bank of 100 yards, and the depth of the mine 400 yards from the surface, it would be found that in each yard of space something like 540 tons was resting. Under such circumstances there would be the enormous weight of 2,700,000 tons of strata only supported by the edges of the coal supporting the limited goaf of little more than one acre in extent. If 5 yards were taken for the pressure extending on each side and end this would give an additional pressure of 864,000 tons resting on the surrounding coal, or a total of 3,564,000 tons on the limited portion of the coal around the goaf. Such a pressure forcing the coal towards the bottom, in the event of the roof remaining intact, the floor or the coal must give way, being no longer able to resist such a great weight. Then as the working faces advance slowly, accompanied by a slight fall of roof, there is a gradual upheaval of the floor forming horizontal spaces or cavities, which are gradually filled with fire-damp of high tension, until at length the whole weight of the strata of the goaf, to the extent, probably, of 3,564,000 tons, settles on the pack-walls and surround the coal and debris within the area of the goaf, the gas pressing down with great force finds its way out at the point where there is the least resistance, near to the coal face and the pack-walls of the goaf

the improvements made during the last few years in the system or ventilation have been the means of lessening the effects. Indeed, the safety-lamp has been a most effectual agent against the sudden outbursts of gas, while the use of naked lights, as was the case at Clay Cross, must inevitably result in fatal consequences. But these issues, it may be said, take place at times shortly after the workings have been examined by the person appointed specially for the purpose. These outbursts, indeed, from some of the causes enumerated take place at times when the ventilation appears all that can be desired, but the raising of the floor and the giving way of some of the props liberates large quantities of the pent-up gases. There are records of mines suddenly giving off without the least warning 2,000,000 cubic feet of gas. Some managers do not believe warning 2,000,000 cubic feet of gas. Some managers do not believe in these sudden outbursts of gas until they are forced to do so, when an explosion takes place, and they see no other way for accounting for such a catastrophe. They then say it is the result of the issue of for such a catastrophe. They then say it is the result of the issue of the pent-up gas in a high state of tension, and against which, therefore, no known system of ventilation could have guarded. But this should not be allowed when it is known that men have been working near to where gas has been found, and at the same time using naked lights, and if they are allowed to continue so there is no excuse for the manager. Such men should be well acquainted with the countity of air passing through the wine general continues. the quantity of air passing through the mine every day, the quantity required to neutralise the gases, and what number of feet should be allowed to each man, boy, and horse in the mine, and should also know that constant changes are going on in the atmosphere, often know that constant changes are going on in the atmosphere, often resulting in the formation of a considerable amount of watery vapour which requires removal when it is met with. With the terrible experience of the past, and the knowledge that there is a latent force in coal in the shape of gas of a most destructive character in the largest and best worked mines, managers should now be able to grapple

with any difficulty that is possible to arise. This can be done by a careful and methodical system of ventilation, the working of the mines on the best and most scientific principles, and the strictest discipline. Under no circumstances should the manager of any of the coal mines in the kingdom be allowed to go unpunished for a breach of the first general rule, which requires him to supply an adequate amount of fresh air for all purposes. Nor should a man be allowed to work in a place, even with a safety-lamp, when he knows there is gas. Were these rules rigidly adhered to there would be very few mining explosions either at home or abroad.

COLLIERY ENTERPRISE IN THE FOREST OF DEAN. MESSRS. CRAWSHAY BROTHERS MINERAL PUMPING STATION.

[FROM A SPECIAL CORRESPONDENT.]

Having regard to the rapid exhaustion of the upper series of mineral and coal measures of Dean Forest, the undertaking commenced a few years ago by the late Mr. Henry Crawshay, at Shekmantle, on the southern border of the Cinderford Valley, carries with it an importance of exceptional interest to the district. The enterprise in question is by no means a new idea, as, on the contrary, it is rather the extension of a scheme initiated by the gentleman named, when he commenced the development of his famous mineral property on the eastern dip of the ironstone measures, and which for a period of 40 years yielded vast wealth. By successive stages the ores lying east of the yielded vast wealth. By successive stages the ores lying east of the field embraced in the area, an extensive one, have been won. The chief output has arisen at the Buckshaft Mine, where the "churns" have reached 14 yards in thickness, of rich hematite quality, and there is unquestionable authority for stating that during the 10 years, from 1860 to 1870, the annual yield exceeded 48,000 tons. The firm possessed other mines drained from Shekmantle station, and the now deformet but long extablished form of Mosers Longe and Greenberg. possessed other mines drained from Shekmantle station, and the now defunct but long-established firm of Messrs. James and Greenham, the proprietors of Parkend furnaces, in another valley of the Forest, possessed a mine likewise drained. The latter, known as the Perseverance, is immediately contiguous to Shekmantle, and this mine provided the necessary mixture of the East Dean mineral for smelting with the western district ores. Returning, however, to Messrs. Crawshay's iron ores, its percentage will be represented within reasonable limit when it is stated the average is approximated at from 40 to 60 per cent. Some of the richer "churns" have fully reached the 60 per cent. maximum. Before the late Mr. Crawshay's death, two or three years ago, the third stage of sinking had been traversed nearly to the extremity of the mineral, and as his existing pumping station would permit of winning little more ore it became again station would permit of winning little more ore it became again necessary to extend it, and this was resolved upon for 60 yards, giving an aggregate depth of 190 yards for the depth of shaft. The fact of an aggregate depth of 190 yards for the depth of shaft. The fact of extending pumping arrangements as indicated—to the initiated in mining operations—do not appear in these days of advanced engineering a formidable matter; but when it is taken into consideration that large schemes in the Forest had failed on the promoters seeking to win the deep series and that to deal with the larger inflows expected at Shekmantle in order to reach the deeper mineral there, the same would involve the laying down of a new and much more powerful plant, few, except those of stout heart, good means, and plenty of hope, would have commanded—in a period, at any rate, of depressed trade—the necessary courage and pluck to have entered upon such an undertaking.

The position was aggravated under the revolutionising developments in regard to cheaper ores of the North, where the progress of science seem to indicate that the cheaply-made metal there would simply

seem to indicate that the cheaply-made metal there would simply annihilate districts such as the Forest of Dean, with its richer and purer ores, because their conversion and cost of get would render such an impossibility thus handicapped. As time went on it was proved that the gloomy apprehensions were in a great measure groundless. It is quite true that the output of crude iron in this district during recent years show considerable diminution, and that silent furness and consult silent injury. furnaces and equally silent mineral industries would rather tend in their practical readings to confirm the fears entertained. There are, however, other considerations which have to be taken into account. however, other considerations which have to be taken into accounty. The ironmasters of the Forest, during the prosperous periods, failed to appreciate the lessons being taught in the North, where the proprietors, having mineral of much less percentage than their own, were successfully initiating developments, which in the end would more than counteract their own. position. Such proved to be the case, and contented to allow matters to run on, Messrs. Crawshay, as one of the firms of ironmasters, notwithstanding their magnificent position in regard to excellence of mineral and abundance of coal, continued their smelting in the same manner as begun 40 years earlier, when many of the large iron-producing districts of the North were unheard of and unknown. What applies to Messrs, Crawshay's firm will no their smelting in the same manner as begun 40 years earlier, when many of the large iron-producing districts of the North were unheard of and unknown. What applies to Messrs. Crawshay's firm will no less apply to others here. To these unfortunate circumstances may be traced, to no inconsiderable extent, the decreased productions of iron. In 1880 the firm, more especially under notice, remedied their antiquated "ways and means" of smelting by erecting a modernly-sitted furnace, which at the present time is producing with great ease upwards of 300 tons weekly of high-class hematite iron. Full advantage cannot be taken of existing facilities, because until Shekmantle pumping station is completed the firm are unable to secure a sufficient quantum of mineral, except purchasing their supplies from other firms, which would place them at some disadvantage; on that account at this moment another furnace is not blown in. As already stated, the present enterprise involved the provision of increased pumping capabilities, and to effect it the entire arrangements had to be remodelled. Mr. Thomas Smith, the respected manager under Messrs. Crawshay, whose practical experience with Forest mining none would venture to dispute, and who is as fully acquainted with mining in the district as any man living, prepared the plans, and under his constant and unremitting exertions the work is sufficiently progressed to permit of no possible doubt of success. In respect to the provision of engine and pumps, boilers, &c., the well-known Neath Abbey firm were entrusted with the work, and this, as now completed, is an undertaking of which any firm of engineers in the world might feel proud, a work which stands pre-eminent as one of the most powerful, if not the most powerful known, in the mining industries. The old engines at their fullest capacity had raised 2000 gallons per minute, but this one and the pumps have been provided by the Neath Abbey firm to throw 2700 gallons, and will approximately entail an expenditure of 250,000.

of 25,000%.

A few days ago, under an invitation of the courteous manager, and with a proffered inspection of the entire work by Mr. Edwin Crawshay, I visited Shekmantle, and had the pleasure of descending the shaft in order to see the sinkers, witness the inflow of water, and inspect the pumps. Before entering further upon this interesting detail of my visit I may, in the first place, proceed to describe the engine, which possesses some novel features. It was designed by Mr. P. Teague, the engineer of the Neath Abbey firm. It varies from the usual Cornish pumping-engine in so far that it is actuated by steam above as well as below the piston. Therefore is attained double the power of a single Cornish engine of the corresponding cylinder capacity. The motion is regulated by a fly-wheel and crank, with connecting-rod attached near the pumping end of main beam; by this arrangement the surges of the pumps are taken up by of 25,0007. beam; by this arrangement the surges of the pumps are taken up by the momentum of the fly-wheel in a direct manner as the preferable alternative to passing through the centre of main beam. By this means will be avoided the risk of fracturing the fulcrum point pump-rods are suspended vertically from the out end of paral f motion. The whole is balanced by a beam placed in an arch way underneath the basement of the engine-house, which is a splen-did specimen of skill and workmanship. The iron beam of the engine is 36 tons, and this enormous weight was raised 90 ft. to its bearings. Its length is 36 ft., and when it is stated that it was lifted into its

each lift—and the H-pleces to receive on the top are 15 tons each clack pieces from 7 to 10 tons each, and the air vessels are about the same weight. Total weight of the castings and hammered iron clack pieces from t to 10 tons cann, and the air vessers are about the same weight. Total weight of the castings and hammered iron rods, &c., for the pump work is upwards of 550 tons. Immediately serving the sinkers is a specially designed engine and pumps, about 11 tons weight, hanging on chains and suspended some 30 yards from the bottom on a wooden beam. This is on the bucket and plunger system and worked by steam from the surface. There are a couple of 17-in cylinders, 19-in. plunger, and 12-in. bucket. Practically the lower pump is constructed for Dunn's patent drills and, as stated, worked by compressed air from separately erected machinery and conveyed down the shaft in pipes. At the extreme point of working I observed a shoot of water rushing in, some 8 or 9 in. in diameter. There were nine sinkers at the shift, and operations continue night and day uninterruptedly. In the blasting gelatine is successfully employed, and the adjacently suspended sinking engine is protected from injury by rope matting. The engine-house is 90 feet high from the base to the wall plating, and the masonry is of Forest grey stone; the same material is dressed on the bank and used in the shaft masonry. At the top of the engine-house the thickness of the shaft masonry. At the top of the engine-house the thickness o masonry is 2 ft. 6 in., well braced, and tied in with iron bands. exterior walls are faced and finished with disregard to cost, spicuous in all the engine-houses belonging to the firm, although this one, as became necessary, is the most substantial of all the buildings undertaken by the deceased gentleman, and is, de facto, the most massive structure of its kind in the Forest of Dean. The roof is covered with slate, the principals being a massive pitch pine, strengthened with diagonal beams, braced with cast and wrought iron effecting creat strength and solidity to the whole. These iron, affording great strength and solidity to the whole. These were designed and carried out by Mr. Thomas Smith, the firm's energetic and able manager. I should state also that the whole of the interior fixings of the pump lifts was under his special direction, and as some of these, 15 tons in weight, were lowered to their respective bearings the skill required to cope with such duties need no further reference beyond saying that not a single hitch occurred, and not so much as the pinch of the finger happened, either in relation to that or any other important detail of the undertaking, not only to the manager, Mr. Smith, but to every member of the Neath Abbey firm and other. other important detail of the undertaking, not only to the manager, Mr. Smith, but to every member of the Neath Abbey firm and others engaged, unqualified praise is due. The large pumps are now working, and with the present pressure and inflow are throwing 3220 gallons per minute. I should add that a portion of the pump castings, under drawings made by Mr. Smith, were supplied by Messrs. Chas. Jordan, of Newport, Mon. From the commencement Mr. Smith has been assisted by Wm. Addis and Elijah Wintle in the engine and ironwork, and by Messrs. Richard Turley and S. Morgan in the pitwork. On the occasion of my recent visit I was assured that during the heavy rains of October and November nothing could have saved the mines of the neighbourhood being flooded but for the timely provision in this extended pumping arrangements, and their speedy employment. Remembering that we are within measurable distance of the time when the deep workings of the Forest must be undertaken employment. Remembering that we are within measurable distance of the time when the deep workings of the Forest must be undertaken in order to prevent a possible and very probable collapse, the present enterprise will have gone a very long way in the direction of proving that under similar well-directed employment of capital the entire coal and iron ore field of the Dean Forest might be readily drained, so that the deep and maiden seams may be won, and thus secure a long era of prosperity to the district. As the question of drainage for the Forest is cropping up, and has for some years evoked attention, all who have interests in the district will be largely indebted to Messrs, Crawshay for the experience they have afforded in demonstrating what had not been previously proved, and none will be disposed to withhold their best wishes towards them in regard to the prosperity of the undertaking involved in this notice, which has been one surrounded by heavy responsibilities and incessant anxieties, but one surrounded by heavy responsibilities and incessant anxieties, but which, it should be added, have been lightened by the indefatigable exertions and never ceasingly labours of their manager.

BLASTING WITH WATER CARTRIDGES.

At a meeting of the North Staffordshire Mining Institute, held at Stoke-upon-Trent, on Monday—Mr. James Lucas in the chair—Mr. Haines, the secretary, read a report of a committee appointed at a previous meeting on the subject of blasting experiments by Mr. James Macnab, of London, with his water cartridge, at Leyestt Colliery, on Macnab, of London, with his water cartridge, at Leyectt Colliery, on Nov. 16. It stated that the experiments were made in the Ten-feet coal of the Harrison and Woodburne Pit. The first was in a hole 2 in. in diameter (in accordance with Mr. Macnab's request), 4 ft. deep, the angle of the coal being 45°, 6 ft. on the face. The coal was being worked to the rise in 12 yards. The charge was 10½ ozs. of ordinary blasting powder, or 8-in. cartridge (the water cartridge being 18 in. long), and fired in the ordinary way. A little clay was placed between the powder cartridge and the water cartridge, also a little clay between the water cartridge and the stemming. The result was about the same as in ordinary blasting, according to the opinion of the engineers and workpeople present. A great many sparks were about the same as in ordinary blasting, according to the opinion of the engineers and workpeople present. A great many sparks were seen. For the second experiment the hole was 3 ft. 10 in. deep, 2 in. diameter, the charge being the ordinary one of 8 oxs. of ordinary powder, or 6-in. cartridge. The charging, as regarded water cartridge, clay, and tamping, was exactly the same as in the first experiment. The result as regarded bringing down coal was successful, but both sparks and flame were clearly visible. After the second experiment it was stated to Mr. Macnab that in the opinion of those present the water cartridge was not successful in preventing flame and sparks, and he was asked if he could suggest any alteration in the firing so as to obtain a different result. His answer was, "No; the firing so as to obtain a different result. His answer was, "No; I don't think I can." It was then decided that it was useless to continue any further experiments in this seam, to which Mr. Macnabastinue any further experiments in this seam, to which Mr. Macnabassented. After reaching the surface an experiment was tried in a cast-iron pipe, 3 in. internal diameter. An ordinary powder cartridge was put in the pipe, and then a water cartridge and sand tamping. The pipe was placed vertically in the soil in the field. The experiment was intended to illustrate a blow-out shot, and certainly both flame and sparks were clearly visible. A second experiment was also made on the surface with gunpowder and a small quantity of tonite, placed in a thin wrought-iron pipe about 5 in. in diameter. A water cartridge was placed on the charge, and was slightly rammed. The report when the charge was fired was a loud one, but the existence of flame was fully demonstrated. Mr. Haines then added that after the experiments at Leycett the water cartridges were tested at after the experiments at Leycett the water cartridges were tested at Adderley Green on several different days, and the conclusion arrived at was that it was not successful in preventing sparks and flame when sed.

Mr. W. Heath said he attended the meeting at the Leycett Col-liery on Nov. 16, and he carnestly watched the experiments with Mr. Macnab's water cartridge. The first shot was overpowdered, as was frequently the case with colliers, and would be if the water cartridges were in general use. It was a practice as much against the interests were in general use. It was a practice as much against the interests of the men the muscleves as against the colliery proprietors. The flame and sparks from the shot could not have been more under any circumstances. He had seen many thousand shots fired, but seldom had he seen more light and sparks from one. The coal was 7 ft. thick and was holed in the bottom. The first shot was 8 inches long and the hole 4 feet deep. The shot was no sooner fired and the results seen than it was stated by Mr. Macnab and admitted by the shot was a covered the part shot was a specific or the tile was expressed and the properties. by the visitors that it was overpowdered. The next shot was as nearly as possible the same as the first as to bulk of coal, depth of hole, and all other circumstances excepting the quantity of powder used. Mr. Macnab himself decided what size of cartridges should be used, and he chose one 6 in. long. The result was that there was nearly as much light and fire flying as in the former case; but neither Mr. Macnab nor anyone else made any remark about this one being over powdered; and, as a matter of fact, if less powder to a year, small extent had been used the coal would not have Its length is 36 ft., and when it is stated that it was lifted into its socket without a hitch, it will be admitted that this in itself was a triumph in engineering skill. The stroke is a 12 ft. one, and working with all the case and mochanical nicety it is possible to conceive. The cylinder is 70 in. in diameter. The engines are what are known as a double pair of condensers, and they are served by six tubular boilers, two of which are 36 ft. in length. There are that the water cartridge was perfectly useless, and there lifts or forcing pumps, each 27 in. in diameter and 12 ft. stroke, suspended on massive iron girders now working over the stroke, suspended on massive iron girders now working over the sinkers. The weight of each girder is nearly 9 tons—four under taken p for the been me had bee ure.—M ment he of gettin Mr. Mae that eve clared t kindnes able. I a vote o facilitie Mr. Nie Adderle by Mr. him. H and the There w could se and he to furth mously. SIR,— dressed Journal Lond

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the ordinary method. The water cartridge and the clay required took up so much of the hole and so weakened the stemming space that blown-out shots would be more the rule than the exception. The fear of bursting the water cartridges would cause the men to The fear of oursting the water cartridges would cause the men to leave empty spaces in the holes through not ramming the first part of the stemming home. This would cause blown-out shots. Again, on some occasions the soft wet clay used before would thrust up the water cartridges amongst the powder, bursting the cartridge. On other occasions the water cartridge would get burst. Mr. Heath went on to explain that to counteract these two effects more powder would be required, and the result would be more sparks and flame. Mr. Macnab had admitted that he could not do more than he had done by his first two experiments to prevent flame and sparks, and rolantarily abandoned further trials. Mr. Settle did everything he could to facilitate the complete trial of the water cartridge at Leyott. He (Mr. Heath) on leaving Leycett recommended Mr. Macnab turn his attention to another process of getting coal which he (Mr. trench) referred to, but he consented to attend some trials at Administration. Macnab) referred to; but he consented to attend some trials at Adderley Green the next day. When he (Mr. Heath) went down the derley Green the next day. When he (Mr. Heath) went down the pit one experiment with the new process had been tried, which he was informed had been a failure. Another experiment was made under the most favourable conditions with a like result. Another hole was drilled in the same and charged with power and tonite and water cartridge. No sparks were seen, but the result would have been the same if powder alone under the ordinary method had been sed, as the shot was considerably under the proper strength and left the coal in the same position as before it was fired. The coal was slightly broken and smoke was perceived issuing from a break near the back of the holing. This was one of the instances in which Mr. Macnab claimed success; but the same result as to sparks could just as reliably be obtained by using powder in the ordinary way, and even blowing the coal better than it was blown in this instance.

Mr. Lawton confirmed the remarks of Mr Heath as to what had taken place at Leycett. Every facility was afforded by Mr. Settle for the proper trial of the water cartridge, and nobody would have been more pleased than Mr. Settle if the experiments of Mr. Macnab

had been successful, instead of being, as they were, a perfect failure.—Mr. Settle said in offering the means of making the experiment he was only actuated by a desire to ascertain the best means of getting coal, and at any future time he should be glad to assist Mr. Macnab or anybody else in doing so.—Mr. F. Silvester testified that every facility was given for trying the water cartridge, and delared that Mr. Macnab was treated with every consideration and ess, and his subsequent conduct was consequently unaccount. He proposed the adoption of the report of the committee, and avote of thanks to Mr. Settle for his kindness in having afforded facilities for testing the water cartridge in the interest of mining.—
Mr. Nicholls seconded the resolution.—Mr. Hugh Jones said at Adderley Green Colliery he charged every hole for the experiments Adderey Green Colledy he charged every note for the experiments by Mr. Macnab. He did everything exactly as Mr. Macnab wished him. He had in his experience prepared many hundreds of shots, and the experiments with the water cartridges were not successful. There were only two shots which did not show sparks or flame. He could see no better result from the water cartridge than from clay, and he was of opinion that it would be nothing but waste of time to the water two the water cartridge. The resolution was carried upaging to further try the water cartridge. -- The resolution was carried unani-

MINING EXPERIMENTS AT LEYCETT.

nously.

SIR,—Will you kindly insert the enclosed letter which I have addressed to the Staffordshire Sentinel in reply to a letter sent to that Journal by Mr. Miles Settle on this subject.

JAMES MACNAB. MINING EXPERIMENTS AT LEYCETT.

MINING EXPERIMENTS AT LEYCETT.

Sir,—A slip of your impression of Tuesday, 5th inst., has just been kindly for wirded to me, containing a reply from Mr. Miles Settle to my letter of 7th ult. Allow me to very briefly say that I have nothing whatever to retract in my letter, and as Mr. Settle's bold letter will not bear the rigid test of keen analysis, I will content myself by simply saying that If any unvarnished facts touches him too near, and makes him write in a malicious style for the purpose of shielding himself under garbled and not strictly correct statements and contradictions, I shall not condescend to wrangle with him further on this miserable subject, but shall freely leave my grievance in the hands of the Institute and the members who were present, having already asked the secretary to do so. As regards Mr. Settle's interested opinion and erroneous estimate of the safety-valve of my patented invention, I beg to refer him and those interested to already established facts regarding my system, and also to my recent successful experiments completed at Addericy Green Collieries, where—through Mr. Settle's indifference, I again repeal—I was obliged to go, a report of which has appeared in the Colliery disardian and Mining Journal, of London, and also in your impression of Dec. 11, including all my published testimonials from eminent engineers and managers, to at once dispose of his absurd ideas of the safety-valve and practical working of water cartridges, and which, singular to say, he himself verbally approved of As I am averse to public controversy, unless unjustly attacked, i shall not Impess on your kind indulgence further on this subject.

James Macnab.

London, Dec. 12.

DISCIPLINE IN MINES .- At the Blackwood Petty Sessions on Dec. 8, several important cases under the Mines Regulation Act were heard before Mr. W. Llewellyn, Chairman, and the Rev. Rees Jones, two magistrates for the division. John James and Thomas Bevan, colliers, were each fined 1L, including costs, for sleeping in the Celynen Colliery, the property of the Newport Abercarn Black Vein Steam Coal Company, on Nov. 21. Enoch Powell, collier, was also fined 10s., including costs, for having in his possession a pipe, when examined at the shaft bottom (lamp station), in the same mine. The bench severely cautioned the defendants in each case, remarking that any future cases would be dealt with more vigourously. The company were represented by their manager Mr. J. T. Green. pany were represented by their manager, Mr. J. T. Green.

THE COPPER TRADE.—The following are the Customs Returns of Copper for the past month, and also for the first eleven months of the year, reduced to a common denominator, and compared with the same figures in 1881: - Nov. IMPORTS.

1881.		1882.	
875	******	1220	opper, in pyritesTons
1326	*********	1311	Ditto, in ore
549	**********	1081	Ditto, in regulus
1489	**********	1660	Ditto, in precipitate
3202		2581	oreign raw copper
		Orrestment.	-
7441	***********		Total tons
8,856	£1	35,482	alue of above£18
	BER 30.	NOVEM	IMPORTS, JANUARY 1 TO
9,374	***************************************	85,468	opper of all descriptions Tons
			alue of same£5,352
	***************************************	85,468	opper of all descriptions Tons

ROYAL SCHOOL OF MINES ANNUAL DINNER .- The periodical meetings of fellow-students and college chums at the annual social gatherings connected with the institutions at which one has been trained rank amongst the most enjoyable episodes of one's existence and the heartiness and kindly feeling exhibited at the Royal School of Mines dinner on Monday evening could leave no doubt that stu-Mines dinner on Monday evening could leave no doubt that sta-ent-ship of that School is productive of similar lasting friendships to those which spring up in connection with the oldest education establishments of the country. The Chairman (Mr. E. L. J. Ridsdale, late of the Royal Mint) being a student of 1853, may almost be said to have grown with the School itself, and he may congratulate himself upon the fact that the toast of the "Present Professors" brought from Prof. Huxley the declaration that many of the past Professors were men who had left a lasting mark upon the history of science, and that, with regard to the Normal School of Science and Royal School of Mines it was his firm conviction that, if the Professors did their work properly, and if the scheme of instruction were carried at thoroughly and well, there was no school in Europe in which the instruction for the sake of the student, with a view to his needs, was so thorough and complete as it was in this Institution at the present moment. He did not say this from any spirit of scientific Chauvinism, which would lead him to unduly exalt any institution with which he might be connected, but because he believed it was a simple matter of fact. In his opinion, the credit and reputation of the School of Mines, in future years, would stand at even a higher level then it had nes, in future years, would stand at even a higher level than it had done in the past. Nor were Prof. Judd's remarks in proposing "The Geological Survey" less gratifying, since he was able to state that former students of the School were now at work on geological surveys in India, Germany, Sweden, and the United States. But the most important part of the proceedings (which are fully reported in Railway. The Court House is something more than 10,000 ft, above

another column) was the exhaustive statement of the Chairman in proposing the toast of the evening, "Prosperity to Mining and Metallurgical Industries of this Country," coupled with "The Prosperity of the Royal School of Mines," it was, indeed, a lucid and concise sketch of the period, and was alike interesting and instructive. Mr. Ridsdale's address, whilst reflecting honour on himself, is, in every respect, a credit to the School which can claim him as one of its early

THE TRANSVAAL GOLD FIELDS, AND HYDRAULIC GOLD MINING.

The mineral resources of the Transvaal have during the last 10 years been frequently referred to in the Mining Journal; but the unsettled political condition of the country has hitherto prevented their development being undertaken. This neglect, however, is to their development being undertaken. This neglect, however, is to be no longer a cause of complaint, for an influential syndicate—the South African Syndicate Company—has now been formed with a view to facilitate the opening up of mines in the Transvaal, and from the preliminary arrangements, which are understood already to have been made, no doubt is entertained that the result will be the estabeen made, no doubt is entertained that the result will be so the blishment of a permanent and remunerative industry. The first discovery of gold in the Transvaal was made by Mauch in 1867, and two years later he directed attention to the Murchison quartz range. Button's discovery of the Marabastad was in 1871; but it was not until 1873 that the Transvaal was known to possess alluvial gold deposits. In that year the Lydenburg district was proved to be auriferous, and is now a recognised gold field. Since then auriferous quartz reefs have been discovered in the Waterberg and other districts; and on the Waterfall, or Lisbon, and adjoining farms there were at the end of August, 1880, no fewer than 137 whites, employing 1640 natives to wash for gold. The total declared value of gold exported between the years 1873 and 1880 was 309,791*l*., and it is estimated that up to the end of 1882 the amount will reach 1,000,000*l*., all of which has been produced without the aid of machinery and by all of which has been produced without the aid of machinery and by unskilled native labour.

But gold is not the only valuable metal to be obtained, for it ap pears that copper is extracted in great purity by the Kaffirs, that lead ore containing as much as 84 per cent. of lead and 64 ozs. of silver, and cobalt exists in abundance, that tin is found in the southern districts near the surface, and that diamonds have been found in the Nylstroom, Waterberg district. The copper, silver, and lead carry gold in quantities to pay for separation. The syndicate proposes to purchase agricultural farms (about 600,000 acres in extent) near Lydenburg and Waterberg, South Africa, on which have been found gold, silver, lead, and copper, in reefs; the gold is so rich that it can be seen with the eye, unaided by a microscope, in almost every piece of quartz taken from the reefs. Special attention is, however, directed to the placer gold on the Lisbon tract. It is remarked that it requires from one to three years to open up a reef mine, put machinery on it, and obtain results; while to put machinery on a placer claim, of almost unlimited capacity, requires only a few weeks. On the discovery of gold on these farms a rush was made by miners, and to settle title as to the ownership of the mineral it was necessary to obtain from the Government a concession. ral, it was necessary to obtain from the Government a concession, which is attached hereto. Other evidences than those given by the owner leads, it is added, to the conclusion that this Lisbon Farm (in extent 10,000 acres) is a centre of one of the richest gold regions ever known. Arrangements have been made with the owner of a part of these properties, embracing about 100,000 acres, based on the representations that he will make a good title to about 100,000 acres, the whole property, together with the water and the minerals. owns the water running through his property, and it is said to never failing.

never failing.

The report of the owner states that the Waterfall, or Lisbon Farm tract, is situated on a mountain side, the title covering land from its highest point, an altitute of about 800 ft. above the lowest, point of the track. The land runs from the watershed westerly to a point near the River Blyde. The streams running down the mountain and intersecting the known placer ground are so situated as to command, for gold washing purposes, some 5000 acres of surferors. tain and intersecting the known placer ground are so situated as to command, for gold washing purposes, some 5000 acres of auriferous soil. The waters have an estimated fall in the first four miles of 400 ft., which becomes greater as the River Blyde is approached, where there is a fall of 350 ft. in 14 mile, and a still further fall at a very steep grade of 200 ft. into the River Blyde. The extent of ground known to contain gold on this side hill, where this water is, is not less than 5000 acres, and commanded by the streams (for washing purposes.) Colours of gold can be found in each shovelful of earth over about 5000 acres. On 1000 acres, nearest to the water, several hundred holes or pits have been dug, the natives finding that the ground became richer the nearer they approached the ing that the ground became richer the nearer they approached the bed rock. Large sums of gold have been taken away by Englishmen, by hand washing and ground sluicing from the pits, amounting in the aggregate to many thousands of pounds, not taking into consideration that taken by the natives.

THE MINERAL RESOURCES OF COLORADO. LEADVILLE, AND ITS MINES.

The Golden State, lined with gold and silver, banded with iron and soldered with lead, is the graphic description of Colorado given by the Chicago Inter-Ocean, and in this wonderful State is "Leadville the greatest mining camp on earth" with a production of 10,000,000t., nor are these startling definitions without much justification. Virtually but six years old she, to-day, occupies the proud distinction of producing more gold, silver, lead, and iron than any country of the same magnitude on the globe. To say that her mining interests are yet in their infancy is but reciting a fact so well known to her people that the assertion may seem superfluous. To those unacpeople that the assertion may seem superfluous. To those unac quainted with the situation, however, this statement may be prolific of some good, for the capital so isolomic between the cap of some good, for the capital so jealously hoarded up in the large cities of the East may be induced to venture into this great mineral region, and return to its coffers with interest a thousand times increased. Vividly does the mind of the writer revert to the days of the early mineral discovery of Colorado; nor can we forget the many bitter disappointments of the hundreds, nay, thousands, who with highly wrought imaginations and airy expectations, inspired by the greatly exaggerated and wonderfully distorted stories of the fabulous mineral wealth to be found at Pike's Peak, made the tedious and then perilous journey across the great American desert, and who were met upon their arrival at this celebrated Mecca with the startling and dispirited intelligence that there was "nothing in "The without investigation of the contract of the c Thus, without investigation as to the correctness of their information or veracity of their informants, many of those who were financially able turned, and, dejected and sick at heart, retracing their steps, and spreading this deplorable information along their journey, thereby causing large numbers en route to this great "land of promise" to return with them, fully convinced (though not really knowing) that there was no mineral in Colorado. Hence it is perfectly clear to the minds of those cognisant of the fact, and who have since acquired practical mining knowledge, that these ignorant and unfounded falsehoods worked great injustice to Colorado, and the development of her true mineral wealth was unmeasurably retarded thereby. Again, it is truthfully asserted by experts and those who have practically ascertained the correct processes of extracting the economic minerals from the earth and the proper treatment thereof, involving, as it does, the application of many of the wealthproducing regions of Colorado to-day, that these lands were prospected over years ago by men who proclaimed themselves experts, and who claimed large experience throughout the various mining regions of this and other countries. The fact is they were in utter ignorance of the many and varied forms of mineral deposits, and most practically and conclusively was this fact verified in the dis-covery of the almost fabulous wealth of the great carbonate deveopment at Leadville. These, with some other causes, have retarded

dorado and delayed her development many decades.

Leadville is located about 75 miles south-west from Denver, but

the sea level, while some portions of the "camp" are situated far above this altitude. Fortunately, the business and new residence portions are regularly laid out, and the broad and nicely graded streets constitute a source of favourable remark from all. The great production of Leadville (we mean now those of the mines in close proximity and California Gulch, a portion of which is within the city limits) has reached the enormous figures of about \$50,000,000, and this within a space of four years. In conversation with Governor Tabor on this subject he remarked that "Leadville had made more Tabor on this subject he remarked that "Leadville had made more rich men in a short time than any other place on the globe; that if the money taken out of the ground was kept here, Leadville would to day be wealthier than any city of 50,000 people in the United States." He further estimated that at least 75 per cent. of the mining production goes to New York, Chicago, St. Louis, and Denver—the remainder being spent here for just such improvements and living expenses as are absolutely necessary for the operation of mines and the maintenance of residents. This year's production will reach \$17,000,000, or about \$1,500,000 more than last.

This leads us to the all-absorbing question which has made Leadville a household word throughout the entire world—mining. This great industry is carried on to a further extent than in any camp on earth. It would perhaps be interesting to some to publish a scientific article, furnished us by one calculated to instruct in reference to the disposition, formations, &c.; but, as it is full of technical

ence to the disposition, formations, &c.; but, as it is full of technical and scientific terms, the average reader would pass it by, and look for something a little plainer and more practical. Hence, in a general way, we will state that there are a score of mines at Leadville which employ from 75 to 400 men, the pay-roll, as near as we could ascertain, amounting to more than \$500,000 per month. The ore taken out comprises silver, gold, lead and iron, besides numerous auxiliaries necessary for the reduction of the principal ores. In fact, it is stated that every material used in smelting is found here with the exception of salt, and the coke, if the new process referred to in another place proves a success, will be manufactured in sufficient quantities to avoid the necessity of long shipments.

Of the numerous mines now at work and prospering in the Lead-ville district, those of the La Plata Company are amongst the most prominent, and fortunately the shares in this undertaking are largely held in this country. The organisation includes—President, N. Wetherell; Vice-President and Treasurer, T. Berdell; Secretary, A. Landon; Manager and Vice-President, M. E. Smith. Capital stock, 82,900,000. There are six furnesses; consuming capacity, 160 tons per

Lead

for the manipulation of these ores, the treatment of which with the for the manipulation or these ores, the treatment of which with the present smelting facilities is rendered too expensive to make it a source of profit. We have paid no particular attention to this new process, nor has there been as yet any fair test of its merits. Much, however, has been claimed for it, and all admit that if it should prove successful there would be a saving of 75 per cent. in the actual expense of treating ores, and at the same time develope a new source of realth in the treatment of the very large error with a constitution of the same time develope. of wealth in the treatment of the very low grade ores, which cannot of wealth in the treatment of the very low grade ores, which cannot with the present expensive and inefficient system be worked with any profit whatever. The peculiar merits of the process are the great reduction in the price of fuel which it proposes to introduce. The cost of fuel for smelting 6 tons of ordinary ore is at present about \$28; under the new process it will be about \$8. The process mainly consists in the use of bituminous coal, which, in properly constructed retorts, is converted into coke and combustible gas. The coke is mixed with the ore to be smelted, and the gas is injected into the incandescent mass, producing a heat superior and far more economical than any that can be obtained by any other means. If this procal than any that can be obtained by any other means. If this proposition can be successfully demonstrated, it would, of course, work a complete revolution in the aspect of affairs in the carbonate camp, a complete revolution in the aspect of affairs in the carbonate camp, and, in fact, throughout the mining regions of the world. It would, of course, necessitate a large increase in the number of smelters, and a corresponding increase in the number of people employed in the mines. It must not, however, be supposed from the fact that Leadville is a mining camp, and that her commercial interests are of no consequence. For, notwithstanding the fact that it is one of the largest and wealthiest mining camps on earth, and has a very large local trade, yet it is rapidly becoming the recognised supply point for a great many tributary camps and towns throughout the mining region of the Rockies.

WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS, MINEOWNERS STOCK AND SHARE DEALERS, &c 1, ST MICHAELS ALLEY CORNHILL, LONDON

The Stannaries Act provides for the use of proxies in Cost-book mines, and under no particular specified form. In reference to meetings it says—"The votes of a majority to value of such shareholders as are present in person or represented by proxy at the meeting." In most Articles of Association of limited companies the same provision is made for shareholders "present in person or by proxy."
These proxies should be in the usual form, and deposited at the offices of a company a day or two before the meeting at which they are to or a company a day or two before the meeting at which they are to be used. The case of the Union Steamship Company, referred to by our correspondent, is altogether different. In one of the clauses of the Articles of Association of that company it was ordered that proxies should be signed in the presence of a witness. This was therefore one of the laws of the company which was sought to be abolished by a special resolution of a general meeting, doing away with the processity for a witness. with the necessity for a witness. Thus at the meeting now referred to all the proxies were unattested, and the Judge ruled that they were therefore not in accordance with the original laws of the company, and invalid. Justice Cotton further said, the right to vote by proxy depended entirely on contract, and all the requirements mentioned in the contract must be followed, or the proxy must be rejected. When, then, the right is simply given to vote by proxy without any special conditions attaching to the right, as in the Stannaries Act and the Articles of most limited companies, no witness is required, though as a matter of form there is little trouble in getting an attestation. A proxy, of course, can only be held by a share-

where a Cost-book company had special rules passed before the Stannaries Act, they could place themselves under the general provisions of this Act without abandoning their own rules. The Act specially says "Nothing in this Act shall authorise a company to make rules or regulations inconsistent with its provisions, or shall abrogate any special rules or regulations existing at the ways. The Act specially says a returning in this act specially says a returning and the provisions, or shall abrogate any special rules or regulations existing at the passing of this Act in the management of any company; or shall authorise the making any special rule or regulation to enable a company existing at the passing of the Act to borrow money."

The series of articles referred to, and headed "Mining in Scotland," were written by Mr. J. Y. Watson in 1846. The mines described were visited; Leadhills was referred to but not visited.

we introduced the original East Rose to the London markets in 1843, the principal shareholder here was the late Abel Lewes Gower, then Governor of the Bank of England. He had taken the

shares for an old debt at about 10*l*. each, and was much astonished one day when we bid him 300*l*. for one; and we sold for him afterwards at 1200*l*. and up to 1500*l*. per share. The mine was always daugerous to work, and every level had to be close boarded up to prevent "runs." The ore, then worth about 14*l*. a ton, was like "pea soup," and when a board was taken down would come rushing out in a stream. Thus when a watersmout broke over the mine "pea soup," and when a board was taken down would come rushing out in a stream. Thus, when a waterspout broke over the mine in 1846, and drowned 40 men, the levels ran together and the old mine was practically destroyed, though enormous sums of money were spent upon it afterwards and until its final abandonment. At the time of the accident ourselves and friends owned North Rose adjoining. We sold a good deal of lead from it, but at a great loss, and as our shaft was in firm solid ground, and therefore of great value to East Rose in their efforts to overcome the effects of the sad accident, we sold them the set for 4000l., but they never did any good with it.

The old company struggled on till 1854, when the calls were so heavy that in August of that year the mine was sold to a new company, who hoped by sinking on the course of the lode to make the mine pay, but they did not, and, we think, finally abandoned it in 1859. During these times, however, large returns were made; in the beginning of 1851 the mine sold 992 tons, for 13,9137. For the rest our correspondent must form his own conclusions

There is very little change in the reports this week. Parys is looking better at an important point; so is Crebor. The lode in West Crebor is not looking quite so well in the shaft. Business also is very

D'Eresby Mountain sold this week 20 tons of lead ore, at 9l. 3s. 6d.

GOLD IN NORWAY.—Some attention being at present directed to the auriferous deposits of Norway, it may be interesting to state that some excellent samples of gold ore from Bömmel Island, about 30 miles north of Haugesund, has been forwarded to London. The 30 miles north of Haugesund, has been forwarded to London. The ore consists of quartz, sulphur, and arsenical pyrites from a silurian formation, and comes from a vein about 10 ft. in width, which can be traced for about 1200 fms. The discovery being quite a new one very little has yet been done with a view to its development, but as gold has been found in the vicinity previously by Bergmester Dahll, the Government Inspector for Mines in Norway, no doubt is entertained that the opening out of the deposit would prove remunerative. The samples referred to are remarkably rich; some gold has also been washed out in a very primitive manner, and at the present time the mines are being worked by a private party who are understood to hold a large proportion of the property, and to have control of the remainder. There are unusual facilities for working, the property being situated within a few miles of a good harbour. being situated within a few miles of a good harbour.

FORTESCUE (STANNAGWYN) NATIVE TIN, COPPER, SILVER, AND ARBENIC COMPANY—An extraordinary meeting was held on Monday at St. Michael's Hall, Lombard-street (Mr. Andrew Stein in the chair), there was a large attendance of shareholders. A resolution to wind-up the company for the purpose of reconstruction was unanimously passed, Mr. Andrew Stein and Mr. Groebecker being appointed liquidators. It will be remembered that a new company was formed some months since for the purpose of purchasing this property, but no accounts whatever could be obtained from the proposed liquidator, but an attempt was made to sell; the property by public auction, which was frustrated by the digectors of the new company. The solicitor to the new company informed the meeting that there was a fatal legal mistake in the appointment of the proposed liquidator, and he could not advise the directors of the new company to treat for the purchase of the property, as the liquidator appointed in May laft was not qualified to give a title. The prese t liquidators intend forthwith to commence the reconstruction of the company, many highly favourable opinions having been expressed regarding it.

WEST PATELEY BRIDGE.—The report of the directors prepared for What Patiely Bridge.—The report of the directors prepared for presentation at the meeting on Tuesday next regrets that they have again to announce that the year's operations have resulted in a loss of 8981. 4s. The position and prospects of the mine shown no material change since the extraordinary general meeting held in July, when they were fully explained to the shareholders, who decided to continue the operations, and in accordance with the resolution then passed the works have been continued. Capt. Williams reports that owing to the continued by the end of the decidence of lead everal places had to be abaidoned, which otherwise could have been wrought at a profit on tribute, and chiefly for that reason they have confined their operations to two main points—putting up a rise in tack of the 59 upon the course of the new vein, to prove its value in the upper measures, which is now up 15 fathonis, having passed through a series of horizontal beds, which have to some extent influenced the vein, by changing its underlie and general character for some distance. In conclusion, he expresses a hope that the adjoint place of ground which he has so often recommended to the directors will be obtained, in which he has every confidence valuable and profitable runs of ore greated will be proved at a small expense:

Missouri Lead.—The statement of accounts for the year ended June 30 has just been issued, and shows that the company have assets (including 4634.5s. 6d. cash in London and Missouri), 24864. 14s. 3d. to meet liabilities, sundry creditors, 87094. 14s. 5d., leaving a debit balance of 62234. 0s. 2d. The mine cost for the year was 87644. 3s. 2d., and the Eondon expenses, 10524. 7s. 11d.—10,8164. 1ts. 1d. Against this the returns were (there being 4604. worth of ore, sing, &c., on hand at June, 1881), lead sold, and lead and ore on hand, 4934. 1ts. 3d.; rent, farming profit, and transfer ees, 664. 1ts. 1d.—5604. 3s. 4d.; showing a leas of 10,2594. 7s. 9d. Mr. Thomas Rickard, in reporting upon the various points of operation, says that on the Victoria lode, supposing the dre to continue as it has this far done, a few months of further development will lay open sufficient stone ground for yielding a monthly return on a paying scale. The two carloads or 24 tone of lead resulting months of further development will lay open sufficient stone ground for yielding a monthly return on a paying scale. The two carloads or 24 tone of lead resulting in monthly return on a paying scale. The two carloads or 24 tone of lead resulting monthly of the work in the work of the work of the work in the work of the wore work of the wor

From Mr. JOHN B. REYNOLDS .-- The continued downward tendcney of the tin market has had an almost painful effect on mining securities. It cannot be denied that confidence has been shaken, and that timid holders have continued to realise. That there is no that timid holders have continued to realise. That there is no ground whatever for misgiving is to us perfectly clear. A panic if it comes will read in large fortunes being made by these who take advantage of it. Happily there are at present no signs of panic. Extreme dulines claracterise the market for mining shares, but nothing extreme dulines claracterise the market for mining shares, but nothing extreme dulines claracterise the market for mining shares, but nothing extreme dulines claracterise the market for mining shares, but nothing extreme dulines claracterise the market for mining shares and the property is not shared the state of shares have been pressed. The present moment may be described as a splential one for those who are fortunate enough to be in furnis. The faltures which have taken place in the tin-plate trade simply illustrate the truth of what we ventured to state some weeks since. Now that weak holders have been obliged to succomb, the stocks held by them must of necessity pass into strong hands. The market for mining shares have been obliged to succomb, the stocks held by them must of necessity pass into strong hands. The market for mining shares have been obliged to succomb, the stocks held by them must of necessity pass into strong hands. The market for mining shares have been devol of interest. The enquiry, however, it is difficult to say. We have known that for the period of the succomb, the stocks held by them must of necessity pass into strong hands. The latter than the same of the collection of the succomb, the stocks held by them must of necessity pass into strong hands. The latter do state some one critery neglected and loss sight of however, it is difficult to say. We have known that for the period of the succomb of

Aenthead and Tynedale Lead and Zing Company (Limited).

Comprising—1. The Lead Works and Silver Works at Nenthead; 2. The Spelter or Zinc Works at Tindale; 3. The Freehold Estate, Mines, and Royalties of Priorsdale; 4. Leasehold Mines at Nenthead, Garrigill, and Alston Moor; 5. Freehold and Long Leasehold Properties at Nenthead and Garrigill. The whole being in the County of Cumberland.

Capital £120,000, in 120,000 Shares of £1 each, of which 40,000 have already been privately applied for. 2s. 6d. on application, 2s. 6d. on allotment, and the remainder as may be required.

DIRECTORS.

T. BELL BARKER, Esq., Westoe, South Shields, Director North Green Hurth Mining Company (Limited). HENRY NELSON, Esq., Fl.C., F.C.S., Shipcote House, Gateshead.

Major-General HENRY Y. D. SCOTT, C.B., F.R.S., Silverdale, Sydenham.

J. CAMERON SWAN, Esq., Newcastle-on-Tyne, Chairman Green Hurth Mining Company (Limited). SOLICITORS.

Messrs. ASHURST, MORRIS, CRISP, and CO., 6, Old Jewry, London, E.C. Messrs. WATSON and DENDY, 141, Pilgrim Street, Newcastle-upon-Tyne.

BANKERS.

Messrs. BARNETT, HOARES, HANBURYS, and LLOYD, Lombard Street, E.C.
Messrs. HODGKIN, BARNETT, PEASE, SPENCE, and CO., Newcastle-on-Tyne.
Messrs. DALE, YOUNG, NELSON, and CO., Newcastle-on-Tyne and South Shields. BROKERS

Messrs. HORE, TAPP, and DOIDGE, 3, Copthall Buildings and Stock Exchange, London, E.C.
ARTHUR C. ALLISON, 12, Grey Street, Newcastle-on-Tyne.
AUDITORS—Messrs. MONKHOUSE, GODDARD, and CO., 29, Saint Swithin's Lane, London, and Newcastle-on-Tyne.
SECRETARY—WILLIAM M. HENZELL, Jun.

OFFICES-1, DEAN STREET, NEWCASTLE-ON-TYNE

ABRIDGED PROSPECTUS.

This company is formed for the purpose of acquiring all the freehold and leasehold property, mines of lead ore and zinc ore, crushing, dressing, and other machinery, and smelting mills, situated in the valleys of the Tyne and Nent, sind litherto owned and worked by the London Lead Company, and by the Tindale Spelter Company.

Some idea of the great extent, value, and importance of the undertaking will be gathered from the brief statements following.

The freehold property of the company is extensive, and largely increases the value and solidity of the undertaking. The Frioradale estate covers 3 square miles. It consists of sheep farms and grazing land, with suitable farmhouses and buildings, together with 400 acres of plantations. There are besides numerous parcels of landsand many houses in Nenthead and Garrigili held for the residue of a term of 1000 years. The rents amount to £577 yearly. There are other houses and buildings either reserved to the use of the company or to the public, on which no rental is charged. The growing timber on the Prioradale estate is valued at upwards of £7000 (see Mr. Bewick's report). This property not being essential to the working of the mines could, if necessary, be sold, reserving royalties, roads, reservoirs, and water rights.

The lead smelting works are complete in every department, and fitted with modern appliances for economical working. They are now equal to a production of £500 tons of market lead per annum, and are at present in nearly full work.

There is also an extensive manufacture of litharge, of a quality much appreci-

modern appliances for economical working. They are now equal to a production of 2500 tons of market lead per annum, and are at present in nearly full work.

There is also an extensive manufacture of litharge, of a quality much appreciated, and there is a constant and strong demand for all that is turned out.

The extraction of silver is effected by the Rozan patent process at a great saving in cost. The make of the current year is calculated at above 12,000 ozs.

The spelter or zinc works conjprise crushing mills, ore-dressing machinery, ight calcining furnaces, 14 smelting furnaces carrying 912 retority, retort manuefactory, klins, 40 workmens' cottages, manager's house, and all accessories of a large spelter manufactory. The grinding mills and machinery are driven by water-power; the situation is advantageous for cheap working, and there is good railway connection with the North Eastern system. These works have of late been largely increase 1. In 1859 the out-turn was 626 tons; last year it reached 1410 tons, and the present output is equal to 1600 tons per annum. The produce of these works meets a ready sale, as the metal is of high-class quality.

The zinc works are of exceptional importance. They secure the means of advantageously treating the immense reserves of zinc ore existing in the company's miner, and of making the working of the mines profitable, even in times like the present when the price of fead is extremely low.

The mines and mining property of the contpany are of the most extensive character, covering an area of nearly 13 square miles, and comprising some of the richest mining ground ever worked in the United Ringdom. Of this 3 square miles are freehold, and the remainder leasehold.

There are 51 important veins and branches, besides others of less value. From 21 of these ores of lead and zinc are being raised, and in stevens work of exploration and development is being carried on. There is thus the certainty of a steady yield of ore. Much attention has lately been given to the development

PROSPECTUS.

of the mines, and the production is increasing. Last year's produce exceeds 4000 bings lead ore and 1500 tons zinc ore, and is the largest since 1875. From the work aiready done it is seen that there will be a further increase during the current year. There are 163 men raising ore, and 26 employed in exploration and development. The reserves, as set forth in the report of Mr. Bewick, are computed at 12,000 to 15,000 tons of lead ore, and 40,000 tons of zinc ore.

The ore is cheaply extracted, for there are 43 miles of levels (of which 35 miles are laid with iron rails), and these effectively drain the mines, and by them the mineral is brought to the day, and direct to the various dressing-floors. There is thus no cost for pumping nor for litting the ore from shafts. This extensive system of levels, besides securing the cheap extraction of the ore, give easy access to the great extent of valuable mining ground in which new developments and exploring works are being advantageously carried forward.

The Admiraity deep level driven from Alston up the Nent Valley unwaters a section of strata 40 fms. deeper than the present working levels.

All the machinery in connection with the ore-dressing and in the smelting works is of the latest and most complete description, and, except in the silver works, is worked by water-power, which is of unusual extent. The main storage reservoir, which is on the company's freehold, has an area of over 6 acres. Its cubic capacity is equal to 17,485,000 Imperial gallons.

Great advantage results from the combination of the lead and zinc industries. The company having their own mines of both lead land zinc ores, and having smelting works, both for lead and zinc, are very advantageously situated for the purchase and treatment of ores obtainable from the neighbouring mines of other companies.

The smelting works, both for lead and zinc, are very advantageously situated for the purchase and treatment of ores obtainable from the neighbouring mines of other companies.

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FOREIGN MINES.

states and development is being carried on. There is thus the certainty of a just one. Much attention has kelly been given to the development in the continue of the continue

CANADIAN COPPER AND SULPHUR.—Francis Bennetts, Nov. 39: There has been no important change in the general aspect of the mines—Some slight variation has taken place, such as that the veln in the 23, west of No. 5 shaft, Hartford Mine, is more mixed with slate; also that the vein in the 50, east of No. 5 shaft, Hartford Mine, is a little improved, as is also the veln in the 35, west of No. 1 shaft. The smelting works are running well.

CAPE COPPER.—Ookier: Capt. Henwood, Oct. 31: Good progress has been made in driving the 105 fm. level, south-east of new shaft; the ground has not undergone any change to notice since last report. The 92, north-east of No. 48 winze, is worth about ½ ton of copper ore per fathom. The ground in the 92, north-east of north level, is very favourable for copper ore, and at present produces a few stones; the 92, east of new shaft, is still unproductive. The stope in back of the 92, south of No. 36 winze, yields 6 tons of copper ore per fathom, and the stope in the back of the same level, north-east of No. 28 winze, is worth 4 tons. The ground in the 30, north-east of new shaft, is composed of quartz, iron, and copper ore, the latter not in sufficient quantities to value. No. 37 winze, sinking below the 68, is worth 6 tons of copper ore per fathom. The 89, east of north level, has improved of late, and is now worth 3 tons of copper ore per fathom. The 60, north from new shaft, has been suspended, and the men are put to drive east a few fathoms back from the forebreast in ground spotted with copper ore. The stopes throughout the mine continue to produce fully their estimated quantities of copper ore.

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bave as very promising, for there is no reason why it should not lead to ore of good qualifix. Pecc. 6: Canada Incosa Mine: In the 70, driving west of San Pedro shaft, there is a strong, regular, and productive lode, worth 1 ton per fathom. The lode in the 80, driving west of San Pedro shaft, is well defined, and yields occasional stones of ore. In the 90, driving in the same direction, a good length of fairly productive ore ground is being opened up, valued at 1 ton per fathom. Good progress is being made in 120, driving east of O'Shea's engine-shaft, but he lode does not contain ore enough to value. In the 100, driving east of Lowndes' shaft, there is a regular and compact lode, producing 1½ ton per fm. Arabi's winze, sinking below the 110, is holed to the 120. In Elvina's winze, sinking below the 80, the lode is valued at ½ ton per fathom, but we are expecting a further improvement.

the lots does not contain ore enough to value. In the two, third, each of Lowndes' shaft, there is a regular and compact iode, producing 1½ ton per immarabl's winze, sinking below the 50, the lode is valued at ½ ton per fathom, but we are expecting a further improvement.

Los Salidos Mine: The lode in the 175, driving west of Taylor's engine-shaft, is small and poor, and the ground bard. In the same level, driving east of Taylor's engine-shaft, belode is worth ½ ton per fathom, and unsettied by strong cross-courses. The lode in the 145, driving east of Taylor's engine-shaft, is very valuable, but it has declined in productiveness to 2 tons per fathom. In the 130, driving east of Taylor's engine-shaft, the lode has also fallen off in value to 2 tons per fathom. The lode in the 120, driving east of San Pablo's shaft, is very promising, producing 1½ ton per fathom. Bey's winze, sinking below the 35, has reached the necessary depth for the 45 fm. level. The lode in Alameda's winze, sinking below the 160, has improved to 1½ ton per fathom; the granite is rather hard for sinking through. The weekly weighings of ore were kept up very steadily during the past month, and the stopes are turning out moderately at present. The works at surface are going on satisfactorily, and the machinery is in good condition. We estimate the raisings for December at 375 tons. The tributers returned 176½ tons of ore in the past month.

San Anton Mine: The lode in the 55, driving east of Henty's engine-shaft, is regular and firm, the granite being much harder than it was. In the same level, driving west of Henty's engine-shaft, is not expected the present. In the 40, driving east of San Francisco shaft, the lode, yielding good stones of ore, worth ½ ton per fathom. The lode in the 35, driving west of Henty's engine-shaft, is well formed, and contains occasion it stones of ore. Perez winze, sinking below the 45, has reached the necessary depth for the 55.

San Francisco Mine: The driving of the 25, east of El Clarin shaft, is suspended for

that makes from the furnace, and by heating the water get the boiler set. At the mill most of the machinery is in place, and the upper floor of the furnace is the provided of the machinery is in place, and the upper floor of the furnace is controlled the provided of the

her to food anono status, and the score are to the machinery is in good working order.

NEW EMMA SILVER.—Geo. Cullins, Aita City, Utah, Nov. 20: Our mainery was started on Nov. 18, and, with the exception of a few change eccessary to be made to the starting of new machinery, works very well indeed these changes will of course be made at once, when sinking in shaft will be impulsed.

iately resumed. Nov. 27 : The machinery is all in place, and works very well, and I am n ing the shaft. Sinking shaft will be resumed to-morrow, and shall push

— Nov. 27: The machinery is all in place, and works very well, and I am now curbing the shaft. Sinking shaft will be resumed to-morrow, and shall push it with utmost speed.

NUNDYDROGG GOLD.—B. D. Plummer, Nov. 21: Mining Operations: All inderground work progresses to my satisfaction. It has been my desire to concentrate our forces as much as possible on the points likely to give the most speedy and satisfactory results, for this reason I have removed some of the place commenced to sink below the 55 with one company, and in a week more we shall start another shaft below that level. My object is to test the vein at a point as possible with as little delay as may be.

PIERREFITTE.—Manager, Dec. 10: At last we have fine weather, rain and snow stopped failing, in place of which we have hard frost. The latter, of course, is an inconvenience for us in dressing, but it is much preferable to rain and snow, I think next week we shall be getting some lead again. The men have het as yet begun stoping in the bottom.—South Mine: There was more ore which had fallen in the pit than I was aware of, and it has consequently required time to clear it, besides which we have had the water to pump out again. A short time since we struck water in the end driving south-east on the course of the lode, and the further we advance the more it increases; but what strikes me as extraordinary is that the water is now much less in the pit, I should say about one half. I shail not be surprised to find further on a slide similar to that we have now. If so it will be a good thing for the mine. During the last few days the lode has very much improved in value in this end. There is also, I am glad to say, more lead in the level end going north-west than I have very seen before. This proves that the lode continues rich in length, and that this mine is not a deposit, In the north mine I have again increased the number of hands. In the No, 1 stope I have now 12 miners at work. The lode continues in the soul thands.

gold per cord for the last 2½ cords milled, this including the poor run of 2 ozs. gold from the 12 tons which I reported a week ago. For the last run of 6 tons when yield has been over 1 oz. gold per ton. If we are entering a large body of ore we have an immense thing shead of us, but we can tell nothing in regard to its permanent in the property of the property o improvement. Have been timbering and securing ground in west vein stopes between 5th and this teels, and have extracted the usual amount of ore from same. You will observe that he mill has run full time during the past week. PONTHE BUILD amount of the mill has run full time during the past week. PONTHE BUILD amount of the produced some sof privites. In the 200 metre level such the lode has produced some scones of privites. In the 200 metre level such the lode has produced some good stones of ore during the month, the present end is unproductive. The 17s metre level south the lode has peen the second some good stones of ore during the month, the present end is unproductive. The 17s metre level south, or the two spiles of the south produces a little low quality or current metre. The rise on the eastern part of the lode has been holed to the winze from the \$0, opening a piece of productive ground. The 60 metre level south, on the two spiles of Virginie's lode yields a little orestuff of low quality. The 20 south on the same part on the lode is unproductive. At Seysoubre the driving of the adit south is suspended, the end of the level having got into a barren rock. We have set to sink below the S0 metre level goes on regularly in pretty favourable rock. The 30 metre level goes on regularly in pretty favourable rock. The 30 metre level south is in a soft and unproductive lode. The lode in the same level, north metre. The winze below the aditievel is unproductive. But little has been done at Mioche for want of air; the tribute piches are poor.—La Brouse; The sinking of Alice's shaft has gone on pretty well during the month, and will attain the meessary depth for the 200 metre level in about alweek. The 160 metre level north yields ½ ton of ore per current metre. The 120 metre level north has yielded stones of lead ore and iron pyrites during the month, and the rock is more promising than before. The 80 metre level south is unproductive.—Pranal: The 110 metre level north, over the 110 end, yields ½ ton of ore per curr

imestone.

RIO GRANDE DO SUL (BRAZIL) GOLD.—Henry Eddy, Oct. 28: The different points throughout the mine are without material change since my last report. The whole of the measurements for the month will be taken on 1st prox., and will be duly inserted in my report of the 4th. The new stope, west of the western shaft, produces fully 1 oz. of gold to the ton.—Machinery: The greater part of the new machinery has arrived, and the parts broken (previous to arrival), which have been put under repair at Rio Grande will probably be here sometime next month. The stone for the loading has been quarried, and the road to bring it to the ground will be completed in nine or ten days. This road will also serve to bring down the machinery. The foundation for the loading will be got out next week. The ground is soft, and made it necessary to get a depth of 9 ft. for a good foundation. The whole of the works are being proceeded with as fast as circumstances will admit.

RUBY AND DUNDERBERG—Nov. 19: Dunderberg: The ground in the upraise above the 300 ft. level is somewhat harder, progress this week 16 ft.; total; 164 ft. above the 300 ft. level. There are 12 tributers at work at various parts of the old workings. There is no change in any of the stopes being worked on tribute; 11 tons tribute ore shipped this week. Four contractors, one carman, and one engineer at work.—Home Ticket: The ore in the stopes at the bottom of 40 ft., wost drift, continues from 3 to 4 ft. wide, of fair grade; the perpendicular shaft has been cleaned out to a depth of 30 ft.; 10 tons of ore shipped this week, and about 30 tons at the mine ready for shipment; 10 men at work. The shipments of ore would have been larger but an accident happened to the wagons which bring the ore down from the mines, thus losing four days' work.

SIERRA BUTTES GOLD.—Report for November: Sierra Buttes Mine: Total receipts, \$22,136. Total working expenses, including \$2336 spent on ninth level, 816,474.—Plumas Eureka Mine: Total receipts, \$37,859. Total working expenses, \$20, mestone.

RIO GRANDE DO SUL (BRAZIL) GOLD.—Henry Eddy, Oct. 28: The diffe-

expenses, \$20,355. The vein in the 300 ft. level below the Mohawk shows con siderable improvement as compared with the vein in the 150, and the winze below the 150 ft. level is going down in a body of ore of fair quantity, \$ to 10 ft. wide.

St. JOHN DEL REY.—The directors have received the following telegram from Morro Veiho, dated Rio de Janeiro, Dec. 13: Culaba: 570 tons stamped; yield, 1°9 oits, per ton.

— Dec. 9: Produce for the month of November, 19,000 oits.; value, 7362l.; yield, 3°1 oits, per ton.

— The finds in washing have considerably improved in quantity, and also slightly in quality. The hauling of the blue and reef was greatly retarded the latter part of last week by the dangerous state of claims belonging to adjoining company. This danger has now been removed, and we are sgain hauling. Last night we puiled 500 loads of blue with the one engine. We have shipped 3097 carats diamonds. Week's report as follows:—Number of loads, 16 cubic feet of reef hauled, 2877%; number of loads, 20 cubic feet of reef hauled, 2877%; number of floor loads washed, 3329; number of carats diamonds found in claims, 36%; number of loads washed, 3329; number of carats diamonds found picking and breaking up, 3049%. Total value of diamonds, 38571. 10s.; value of reef hauled, 5391. 11s. 1d. Total of wages sheet, 10571. 13s. 10d.

— Nov. 16: We were considerably hindered last week by dangerous state of claims belonging to adjoining company. Most of the parts have now slipped, or been knocked down, and Mr. Scott hopes to be able to place the No.; engine down below again almost immediately to work the tunnels. A lump of reef slipping in another company's claims, caused the inspector to stop us for two days to trim the jagged pieces. Mr. Jones is doing fair work with the shaft, and will have another pass open this week, and hopes to do better still. He is also erecting a 16 horse-power engine to work with an incline into the cast reef. This engine will be at work some time next week, and I am sure will materially benefit this

COAL MINES REGULATION ACT, 1872.

EXAMINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY. DISTRICT UNDER THE CHARGE OF THOMAS E. WALES, Esq., H.M. INSPECTOR OF MINES.

NOTICE IS HEREBY GIVEN, that an EXAMINATION for MANAGERS' CERTIFICATES OF COMPETENCY, under the abovenamed Act, will be HeLD on the 23rd, 24th, and 25th days of January, 1833, and CANDIDATES INTENDING TO PRESENT THEMSELVES AT SUCH EXAMINATION must, on or before the 31st day of December, 1822, notify such intention to the Secretary of the Board of the above-mentioned District, from whom all information as to particulars can be obtained.

By order of the Board,

C. HENRY JAMES, Secretary.

Courtiand-terrace, Merthyr Tydvil.
 N.B.—Persons who do not reside within the District are equally eligible for canination with those who do.

PROMOTERS, DIRECTORS OF COMPANIES, &c.—A FIRM OF GREAT EXPERIENCE OFFER THEIR SERVICES. Can render great help in procuring capital, but will not provide preliminary expenses
Address, "Lombard," Messrs. Deacon's, Leadenhall-street.

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The California pattern of Gold Stamp Mill is universally ecepted as the most perfect, economic, and efficient made. We have over 900 stamps in successful work in the various Western Gold Districts.

SILVER MILLS.

Silver amalgamation in Pans is essentially an American system evolved after years of work on the rich silver mines of Nevada.

We have over 500 Stamps, with necessary pans, settlers, roasting furnaces, &c., all of our own manufacture, at work in different silver camps of the United States, Mexico, and South America, and Phillipine Islands, Asia,

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Of the most approved German pattern and arrangement, or with Stamps and Frue Vanner Concentrators for low grade silver ores, light in lead. We have over 20 large German pattern mills at work on lead, zinc, or copper ores, and numerous Vanner mills on ores never before successfully concentrated.

Mining Pumps, Cornish pattern, of the largest sizes, Hoisting Engines from 4 h.p. up to the largest directacting engines to sink 3000 feet.

SMELTING WORKS.

We have 80 Water Jacket Smelting Furnaces in use from 20 in. circular up to 54 in. by 60 in. for lead and silver smelting; and special High Jacket Furnaces for copper ores.

Ing; and special High Jacket Furnaces for copper ores.

Engines of any size, plain slide valve, Corliss, compound Corliss. Boilers, all sizes.

Leaching Mills, Hallidie Wire Rope Tramways Comet Crusher, with capacity of 12 to 20 tons per hour. White, Howell, Bruckner, and Stetefeldt Roasting Furnaces, &c.

We have had twenty years' experience in the manufacture solely o MINING MACHINERY, and have special facilities for shipping to all foreign parts through our New York Office, where all details of clearance, shipment, and insurace are conducted. Our machinery is already well known in Mexico, Peru, Chili, Venezuela, Honduras, and other South American countries.

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WANTED, TO PURCHASE, a MODERN BATTERY of from TEN HEADS, or upwards, in good working condition. Address, with price, Mr. DICKENSON, 208, Old Kent-road, London.

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THE PRIZE OF 1883.

THE PRIZE OF 1853.

WANTED, a PROMOTER or SYNDICATE, to TAKE UP a VALUABLE PROVED SETT in the same district as the above, who will be admitted at the net prime cost of the purchase of mines. No commission to anyone charged. Agent undertakes to pay a minimum profit of £10,000 per annum on an outlay of £20,000 for

working capital. Purchase money very low.

Apply to J. Edwards, Royal Lion Hotel, Dolgelley, N.W.

WANTED,—FOUR or FIVE TONS of FLAT or CORRUGATED GALVANISED ROOFING, about 20 gauge.

M. Perrows, "News" Office, St. Austell.

WANTED, by a Mining Engineer, an APPOINTMENT as MANAGER on a GOLD FIELD. He is very active and energetic, and can design, construct, and erect most effective machinery. He is also a good reduction officer.

Address, by letter, to "Energy," MINING JOURNAL Office, No. 26, Fleet-street, London, E.C.

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DEVON CONSOLS for a rise.

Particulars and price to be obtained on application.

ate.	Mines.	LE	A D	O Pris				Purchasers.
ec. 8	-Minera	61	*******	£ 9	3			Nevill, Druce, and Co.
	- ditto	60		9	7	6		Adam Evton.
	- ditto	10		9	5	6		Panther Lead Co.
	-Park	30	*******	10	0	0		Adam Eyton.
	-Lisburne			10	3			ditto
	- ditto	30	********	8	12			Panther Lead Co.
	-Cwmystwyth	30	*******	8	15			ditto
	-East Darren	20	*******		9			Weston, Sons, and Co.
14	-Talargoch	80	********	9	15	6		Walker, Parker, & Co.
	-North Hendre	25	*******	9	8	- 6	*****	Adam Eyton.
	ditto	25		9	8	6	******	Walker, Parker, & Co.
	-Fron Hall	6	*******	9999	2	6	*****	ditto
9.0	-East Roman Grave	els 10	******	9	80040			
13	-D'Eresby Mounta	in 20	*******	8	3	6		ditto

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Date	e.	M	ines.	Tor	ns.	Price	e per	r to	m.	Purchasers.
Dec.	8-1	Minera.	**************	80	******	. £ 4	5	0	*****	Pascoe Grenfell and Co.
			*************		*******		5	0		ditto
			*************				2	6	*****	Villiers Spelter Co.
		ditto	**************	50		. 4	2	6		ditto
		ditto	************	70	******	. 4	5	0		Pascoe Grenfell and Co.
		ditto					5		*****	
	-	ditto	***********	82			16	6		Vivian and Sons.
	-	ditto		30	******	. 3	11	6		ditto
			& Gronant			. 4	5	0		J. F. Kimmel.
	4-7	Talargo	ch	500	******	. 3	5		*****	ditto

EAST WHEAL ROSE.—It is stated that everything is going on well at this mine, and nothing can be added to the agent's report, which has already appeared: "More good lead stopes are being continually discovered, and the various stopes which have hitherto been worked never looked so rich as they do this day. The dressing department is going forward as usual, and a splendid parcel of lead and another of blende are ready for market." This is the chronicle of the past week, and nothing more satisfactory, it would seem, can be desired. Middleton's lode is still improving.

BRATSBERG.—The general meeting was held on Thursday, and passed off very satisfactorily. The accounts showed a net profit of 3694*l*. 19s. 5d., and when the ore just arrived and on the way over is realised, the directors propose to pay a dividend of 5 per cent. for the past 12 months, which, being the first year of the company, is most favourable. Next year the returns and profits will be much increased. The reserves (in the ground opened) are valued between 100,000*l*. and 200,000*l*. After paying the dividend a balance of profit of about 1000*l*. will be carried over, and an amount of capital subscribed for and available of above 12,000*l*. scribed for and available of above 12,000l.

GOLD MINES OF GUAYANA (VENEZUELA).—ALL INFORMATION respecting the above RICH GOLD FIELD can be obtained by existing or intending shareholders, promoters, and others, by addressing "Engineer," care of May's, 159, Piccadilly.

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MINING ENGINEER.

ALEX. DEL MAR.

Mining Engineer, late Director of the United States Bureau of Statistics,
Mining Commissioner for the United States Monetary Commission &c., 216, SANSOME STREET, SAN FRANCISCO.

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NOTICE. NOTICE.

NOTICE.

A FRANCIS, who has had upwards of 40 years' experience in practical mining, would give ANY INFORMATION GRATUITOUSLY as to three Silver-Lead Mines, and one Tin Mine, all in full work, and which will soon enter the Dividend List, when prices must go to a high figure, not improbably in six months in each case to ten times their now selling price. Address, Goginan, R.S.O., Cardiganshire.

LIEBIG'S EXTRACT OF MEAT AND MALT WINE A DELICIOUS BEVERAGE AND TONIO

IMPORTANT TESTIMONIAL

Queen's Creacent, Haverstock Hill,
London, March 5th, 1881.
DEAE SIR,—Some time since, being greatly fatigued with overwork and long
hours at business, my health (being naturally delicate) became very indifferent.
I lost all energy, strength, and appetite, and was so weak as to be scarcely able
to walk.

As you are aware, I sent for a dozen of your Extract of Meat and Mait Wine, which, in a few days, pulled me up marvellously. Three or four glasses of it daily have quite altered and restored me to better health than ever, "without I am now giving it is not approximate to be the contract of the contrac

I am now giving it to my son, twelve years of age, whom we have always thought consumptive, and from a puny alling boy he seems to be fast growing into a strong healthy lad.
Enclosed you have cheque. Please send me twodozen of the "Extract." With

into a strong healthy lad.

Enclosed you have cheque. Please send me twodozen of the "Extract." With thanks for your prompt attention to my last

I am Sir, yours truly,

Pints, 30s.; Quarts, 50s. per dozen. Carriage Pald to any Railway Station.

Bample Bottle sen ffor 33 stamps Pints, 30s.; quarts, consider the property of the property of the post-office orders and Cheques payable to—
Post-office Orders and Cheques payable to—
COLEMAN AND CO.,
MUSPOLE STREET, NORWICH.

Sold by all Druggists in Bottles 2s. 9d. and 4s. 6d. each. Ask for Coleman's Liebig's Extract of Ment and Malt Wine, and "See that you get it."

In the High Court of Justice.-Chancery Division

In the High Court of Justice.—Chancery Division.

PURSUANT to an Order of the High Court of Justice, Chancery Division, made in an action in the Matter of the Estates of JAMES HICKEY, Deceased—Dedoral HICKEY against Edwin Francis Colmer, 1822, H. No. 4456—the CREDITORS of JAMES HICKEY, tate of 29, Graham-road, Dalston, in the County of Middlesex, Gentleman (who died on or about the 25th day of February, 1832), are on or before the 12th day of January, 1833, to send by post, prepaid, to Mr. George Johnson, of 3, Lombard-court, in the City of London, the Solicitor for the Defendant, Edwin Francis Colmer, the Executor of the Will of the Deceased, their Christian and Surnames, Addresses and Descriptions, the full particulars of their Claims, a statement of their Accounts, and the nature of the Securities (if any), held by them; or, in default thereof, they will be peremptorily EXCLUDED from the BENEFIT of the said Order.

Mr. Justice Kay, at his Chambers, situated at the Royal Courts of Justice, Strand, Middlesex, on Friday, the 28th day of January, 1833, at Twelve of the clock at noon, being the time appointed for adjudicating on the claims.

C. GREGORY, 81, Blashopsgate-street Within, E.C., Bolicitor for the Plaintiff.

CORNWALL.
VALUABLE TIN MINE AND CHINA CLAY WORK, PLANT, MACHINERY MATERIALS, AND EFFECTS FOR SALE.
IN VOLUNTARY LIQUIDATION UNDER THE COMPANIES ACTS,
1862 AND 1867.

1862 AND 1867.

MESSRS. PHILP AND CO. respectfully announce instructions from the Liquidator TO SELL, BY PUBLIO AUCTION, on Wednesday, 20th December Instant, at Two o'clock P.M., at the Fortescue (Stannagwil.) Native Tin, Copper, Silver, and Arsenio Company (Limited), in the parish of St. Stephens in Branwell, and about lour miles from St. Austeil, in One Lot, and if not so sold then afterwards in several lots, all those setts under which the operations of the said company have been carried on, embracing an extensive area, and several lodes and deposits of China Clay, together with the

MINING AND CLAY WORK, PLANT, MACHINERY. MATERIALS, AND EFFECTS

Belonging thereto, and being within and upon the said Mines and Works, and Belonging thereto, and being within and upon the said Mines and works, and including:—

ONE 22 inch cylinder ROTARY ENGINE, with two fly wheels, 16 heads of stamps, frames, and passes, one 8 ton boiler, one 24 inch cylinder engine, large fly wheel and working gear, one 10 ton boiler, also a large quantity of other Machinery and materials in general use in mines, and several tons of China Clay. On the above Mines and Works a large amount has been expended in development, and they may be considered as going concerns, being equipped with two valuable engines and necessary machinery.

To view, application should be made to Capt. PRYOR, on the Mines; and for printed or further particulars to the Liquidator, Mr. DAVID GCURLAY, Grampround-road: Messrs. STACPOOLE and Sox, Solicitors, Pinner's Hall, Old Broadstreet, London; or the Auctioneers, at 8t. Austell and Bodmin.

Conveyances will leave Grampound-road and the Queen's Head Hotel, 8t. Austell, after the arrival of the mid-day trains.

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TO BE SOLD, BY PRIVATE TREATY, the ABOVE WORKS,
situated in the flourishing Colliery District, near Ripley, Derbyshire.
They stand upon nearly Five Acres of Freehold Land, bounded on one side by
the Canal, and on the other by the Midland Railway with Sidings. There are
commodious Buildings and Sheds, a fine Chimney Stack, with all the necessary
Engines, Machinery, and Appliances for carrying on the Speiter and attendant
Manufactures upon the most approved system, or the Works may be adapted to
other purposes.

Manufactures upon the most approve system, other purposes.

Also, TWO EXCELLENT COTTAGES, always Tenanted, upon Land with a frontage of about 151 yards to the Ambergate and Ripley Turnpike-road, so that there is ground space sufficient for 17 other cottages, which would be an excellent investment, as they are much needed, owing to the several new collieries being developed near.

Apply to ALEXANDER SMITH, M. Inst. C.E., Consulting Engineer and Valuer, 4, Burlington Chambers, New-street, Birmingham; or Messrs, Leman, Groves, and LEMAN, Solicitors, 51, Lincoln's Inn-fields, London, W.C.

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THE COPPER MINE of UBERG, NORWAY, about one
Norwegian mile from the port of Tvedestrand, by first-rate road, is OFFERED FOR SALE, or HALF A SHARE, for providing sufficient working
capital. The ore is a chalcopyrite, embedded in crystalline schist, in the surface
glimmer and talcose schist, and deeper hornblende and talc. The ore is inorusted in the rock, sometimes sparely and sometimes in lumps and veins of
great purity. The washed ore is estimated to give from 15 to 30 per cent. of
copper and 40 per cent. of sulphur. The upper layer contains more iron and the
lower more copper. Two pits have been worked to a depth of about 35 feet, and
in breadth from the pit to 25 feet, without reaching the limit. Length can be
stated to 600 or 700 feet. Sufficient water power can be disposed of.
ARCHINTIFEROUS GALENA MINE at EFFERSTOL.
APATITE at THJORE—Rutile, fluor-spar, white pure felspar, tourmaline, and
quarts.

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THE BELL VEAN TIN AND COPPER MINE, situate in the parish of GWENNAP, REDRUTH, CORNWALL, is at present FOR SALE, including all the RIGHTS, competent to the Lessees, and all the MACHINERY and PLANT, which is complete, and of the newest description. The prospects of this mine, according to the report of thoroughly qualified experts, are very favourable, and the workings are in such a condition that a very small outlay of capital should develope the rich lodes believed to be within the sett.

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A LLEN STEAM ENGINE GOVERNOR developes the utmost Power, gives Uniformity of Speed under varying loads, and Economises Fuel.

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POR SALE, BRASS CLACK SEATS and VALVES, for 18-inch plunger lifts and 17-inch drawing lifts, just as good as new.

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TEAM BOILERS FOR SALE, SECONDHAND, with and without Galloway Tubes, single and double rivetted, working pressure of 60 bts., 55 bts., 70 bts., and 80 bts. steam pressure. VERY CHEAP.

FIVE BOILERS, 30 feet by 7 feet 6 inches diameter, excellent order.

SIX BOILERS, 30 feet by 7 feet 6 diameter, excellent order.

SIX BOILERS, 26 feet by 7 feet 7

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FOUR BOILERS, 26 feet by 7 feet 7

And other sizes in stock. Equal to new.

WINDING ENGINES and COLLIERY PLANT of every description, second-hand, in stock. VERY CHEAP. Write to—

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Apply to-BARROWS AND STEWART, ENGINEERS, BANBURY.

O BE LET, ON LEASE, the GRASSINGTON LEAD MINES, in the West Riding of Yorkshire. Also the CONONLEY LEAD MINES, near Skipton.

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MATION regarding the GOLD MINES.

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A GENTLEMAN, who has just terminated a very successful engagement as Manager and Engineer of one of the best known of the West African Mines, is OPEN TO TAKE ANOTHER ENGAGEMENT. Has long African experience, and the highest references. Liberal terms expected.

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A N ENGINEER, of extensive foreign and commercial experience, can be CONSULTED upon the carrying out of PUBLIC WORKS, RAILWAYS, GOLD and other MINING, &c., &c. Has executed Engineering and Mining Operations in the East Indies, Australia, and South America. Speaks Spanish and Hindustani. Can leave England at the shortest notice to report upon properties in any part of the world. part of the world.
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NATIONAL PROVINCIAL BANK OF ENGLAND (LIMITED).

Bishopsgate-street, Corner of Threadneedle-street, London, E.C., December 12, 1882.

The Directors of the National Provincial Bank of England (Limited) hereby give notice that a HALF-YEARLY DIVIDEND at the rate of EIGHT PER CENT. per annum, and a BONUS of FIVE PER CENT., will be PAYABLE on the bank's shares on and after the 12th day of January next, the warrants for which may be obtained at the Head Office, the Branches, or by post, if desired.

The Transfer Books will be closed on Monday and Tuesday, the 18th and 19th inst.

The Transfer Books was

18th and 19th inst.

By order of the Court of Directors,

T. G. ROBINSON,

FRED. CHURCHWARD,

Managers

L. V. I. N. G. C. O. M. P. A. N. Y.

TI

Agents W

BEST

" R.

And

ONTARIO SILVER MINING COMPANY.

DIVIDEND No. 86.

THE REGULAR MONTHLY DIVIDEND AT FIFTY CENTS
(2s.) PER SHARE has been DECLARED for November, PAYABLE
at the Office of the Transfer Agents, Wells, Fargo, and Co., 65,
Broadway, on and after the 15th inst.

The above Dividend is payable at our office on all Stock registered
in England.

in England. EIVES AND ALLEN, Agents, 99, Cannon-street, E.C.

THE MINAS AND BIO RAILWAY COMPANY (LIMITED).

SIX PER CENT. DEBENTURES—HALF-YEARLY DRAWING.

Notice is hereby given, that the THIRFY-THREE DEBENTURES, the particulars and numbers of which are hereunder specified, amounting to £3300, were THIS DAY DRAWN BY LOT, for payment at par, in accordance with the conditions under which the above Debentures were issued, at the offices of the company, 5, Victoria Chambers, Westuninster, in the presence of Mr. JOHN BRIDGE, Notary Public, London, and that the drawn Debentures will cease to bear interest on the 31st instant, and will be PAID OFF on or after the 20th day of January, 1883, by the said company, upon the same and all interest coupons not then due, being left at the National Provincial Bank of England, 112, Bishopsgate-street, London, E.C., three clear days for examination.

PARTICULARS AND NUMBERS OF THE DRAWN DEBENTURES.

			1	SSUE O	F £400,	000.	A DA		
20	Debenture	s of £10	0 each,	amounti	ng toget	her to			£2000
	120	1133	1536	2418	2920	3256	3421	3693	
	190	1298	1944	2682	3016	3418	3583	3830	
	1098	1517	2163	2832					
			T	SSUE O	F £350.0	000.			

THE CALIFORNIA GOLD MINE COMPANY
(LIMITED), OF COLORADO.

Notice is hereby given, that the FIRST ORDINARY GENERAL MEETING of the shareholders in this company will be HELD at St. Michael's Hall, Georgeyard, Lombard-street, in the City of London, on THURSDAX, the 28th day of
December, at One o'clock P.M., to receive the accounts, balance-sheet, and reports of the directors and auditors for the year ending 31st May last, and for the
election of auditors for the ensuing year.

The Transfer Books of the company will be closed from the 22nd to the 30th
December, both days inclusive.

By order of the Board,

EDWARD PENMAN, Secretary.

58, Lombard-street, London, E.C., December 13th, 1832.

RICHMOND CONSOLIDATED MINING COMPANY
(LIMITED).

Notice is hereby given, that the HALF-YEARLY GENERAL MEETING of
the shareholders of the Richmond Consolidated Mining Company (Limited) will
be HELD at the City Terminus Hotel, Cannon-street, London, on WEDNESDAY, the 20th day of December, 1882, at Three o'clock in the afternoon, to receive the report of the directors for the half-year.

By order of the Board,

HUBERT AKERS, Secretary.

44. Coleman-street, E.C., 12th December, 1882.

44, Coleman-street, E.C., 12th December, 1882.

THE MYSORE GOLD MINING COMPANY (LIMITED.)

Notice is hereby given, that the THIRD ORDINARY GENERAL MEETING of this company will be HELD at the Cannon-street Hotel, in the City of London, on THURSDAY, the 21st day of December, 1832, at One o'clock, P.M.:—

To receive the reports and accounts.

To elect the directors and auditors in place of those retiring, and for other general business.

By order of the Board,

W. G. WILLIAMS, Secretary. Registered Office: 6, Queen-street-place, London, E.C., 9th December, 1882. FLAGSTAFF DISTRICT SILVER MINING COMPANY

LAGSTAFF DISTRICT SLLVER MINING COMPARA

(LIMTED).

20, Bucklersbury, London, E.O., 9th December, 1892.

Notice is hereby given, that the SECOND ORDINARY GENERAL MEETING of this company will be HELD at the above address on WEDNESDAY, the 20th inst., at Two o'clock in the afternoon precisely, to receive the report of the directors, pass the accounts, appoint auditors, and transact such other business of the company as may be incidental thereto, which may properly be transacted at an ordinary general meeting.

the company as may be incidental thereto, which may properly be transacted an ordinary general meeting.

Also to consider the best means of raising funds to continue the works and complete the sinking of the main shaft to the 7th level, where from Professor Vincent's report, there is reason to expect that the rich vein which runs directly towards, and within \$0 ft. of, the boundary of this company's property, and which is being worked in the adjoining mine at a large profit, will be struck, and large returns made, and to pass such resolutions with respect thereto as the meeting may determine.

By order,

C. J. CADOGAN, Scoretary.

By order,

HERBERTON (WILD RIVER) TIN LODES, NORTH QUEENSLAND.

Every information relative to the progress of lode-tin mining in the Wild River district (termed by geologists "The Cornwall of Australia") can be obtained by communicating with the undersigned.

CHARLES JENKIN. "Herberton Advertiser" Office, Herberton, September, 1882.

CALIFORNIAN AND EUROPEAN AGENCY. 509, MONTGOMERY STREET, SAN FRANCISCO, CAL-J. JACKSON, Manager

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NOBEL'S EXPLOSIVES COMPANY, LIMITED, (FORMERLY THE BRITISH DYNAMITE COMPANY LIMITED),

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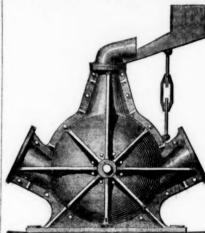
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All communications to be addressed-ROSKEAR FUSE WORKS,

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PRACTICAL HYPSOMETRY: A Method of DETERMINING ALTITUDES (Heights of Mountains and Depths of Mines) accurately and almost instantaneously, with the Ameroid Barometer, WITHOUT TABLES.

Price One Shilling, post free London: MINING JOURNAL Office 26, Fleet-street, E.C.

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